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MOD-OA 200 kW WIND TURBINE GENERATOR ENGINEERING DRAWING REPORT

T.S. Andersen, C.A. Bodenschatz,
A.G. Eggers, P.S. Hughes, and R.F. Lampe
Westinghouse Electric Corporation
Advanced Energy Systems Division



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SUMMARY

This report provides engineering drawings which document the design of the MOD-OA 200 kW wind turbine generator installed at Clayton, NM. The MOD-OA wind turbine was designed and built by the NASA Lewis Research Center for the U.S. Department of Energy as part of the Federal Wind Energy Program. The objective of the MOD-OA project is to obtain early operation and performance data and experience with horizontal-axis wind turbines in utility environments. The first MOD-OA wind turbine was released to the Town of Clayton Light and Water Plant for utility operation in March 1978.

This report contains the engineering drawings for all mechanical and electrical systems except the blades. Included are drawings for the hub, pitch change mechanism, drive train, nacelle equipment, yaw drive system, tower, foundation, electrical power system, and the control and safety systems.

INTRODUCTION

HISTORY AND BACKGROUND

Wind energy systems have been utilized for centuries as a source of power for a variety of applications. Some of the more recent applications included sailing ships for transportation and wind turbines (windmills) for grinding grain, pumping water, and generating electricity. In the early 1940's, a Smith-Putnam large Horizontal-Axis Wind Turbine (HAWT) was designed and built to feed power into the existing electrical network of the Central Vermont Public Service Company. This machine consisted of a two-bladed 175 foot (53.3 m) diameter rotor which was capable of producing 1.25 MW of power. In addition, Dr. U. Hütter designed and built a 100 kW Wind Turbine Generator (WTG) in West Germany in the late 1950's and gained operating experience with his machine tied to the utility network. The Hütter machine used a downwind 112 foot (34.1 m) diameter two-bladed rotor. Several of the design criteria and design features of the Smith-Putnam and Hütter WTGs were considered or incorporated into the MOD-0 and MOD-0A HAWTs.

RECENT DEVELOPMENTS

The recent national concern over the increase in energy demand and costs of fossil fuels, the dwindling supplies of domestic gas and oil, and the nation's increasing dependence upon imported oil has made it necessary to develop alternate energy sources. Wind energy conversion has long been recognized as a potentially abundant source of electrical power. Utilization of wind energy is becoming more attractive as the cost differential between wind and the more conventional fossil alternative narrows.

A Federal Wind Energy Program originated at the National Science Foundation in 1973. The objective of this program is to accelerate the development of reliable and economically viable wind energy systems and achieve early commercialization. Satisfying this objective requires advancing the technology, developing a sound industrial base, and addressing the non-technological issues which could impede its development. In January 1975, the responsibility for managing the program was transferred to the Energy Research and Development Administration (ERDA). These efforts were continued by the Division of Distributed Solar Technology in the U.S. Department of Energy (DOE) after October 1, 1977.

One segment of the Federal Wind Program is the development of large horizontal-axis WTGs. In 1973, the NASA Lewis Research Center (LeRC) was asked by the National Science Foundation (and later by ERDA and DOE) to develop, and provide project management for, the designs of large, experimental, horizontal-axis WTGs and perform the necessary supporting research and technology development. Initially, a review of prior experience

in WTGs was performed. Then, analytical techniques and computer codes were developed to predict the structural dynamics of large HAWT systems such as the MOD-OA.

MOD-O WIND TURBINE GENERATOR

As part of the federal wind program, NASA LeRC designed, built, and started testing a 100 kW wind turbine in September 1975. This experimental project, designated the MOD-O, had primary objectives of providing the engineering data and serving as a test bed for evaluating advanced wind turbine design concepts. The MOD-O WTG was designed using available technology and "off-the-shelf" components where possible. Design, fabrication, and assembly were completed in 18 months. The MOD-O WTG has a 125 foot (38.1 m) diameter downwind rotor which operates at 40 rpm. The rotor drives a 60 Hz synchronous alternator through a step-up gearbox at 1800 rpm. The MOD-O project has been used to help understand the performance and the dynamic behavior of wind turbines. The MOD-O WTG was utilized to: 1) understand the tower shadow and wind shear effects; 2) assess operational performance; 3) evaluate automatic startup and shutdown capabilities, including synchronization to a large and small utility network; and 4) test various components, such as induction generators and steel spar wind turbine blades.

MOD-OA WIND TURBINE GENERATOR

The MOD-OA 200 kW wind turbine generator is, in most respects, an uprated version of the MOD-O 100 kW WTG. The MOD-OA WTG was designed and analyzed by the NASA LeRC for the DOE. The objective of the MOD-OA Project is to conduct early testing of wind turbines in utility environments so that the machine operating performance and dynamic characteristics can be determined. Besides gaining operational experience with wind turbines interfaced with utility networks, an additional objective of the -OA project is obtaining the utility's and the public's reaction to intermediate size WTGs. The prototype MOD-O design was simplified and made "field-worthy" as it was uprated to the 200 kW size.

The purpose of this engineering drawing report is to document the design of the MOD-OA 200 kW wind turbine generator at Clayton, NM now being operated by the Town of Clayton Light and Water Plant. This machine was built to NASA drawings and specifications. Updated drawings were subsequently prepared in Westinghouse format to reflect as-built conditions on the Clayton and later machines. These latest drawings are presented here with a cross index to the original NASA drawings.

The MOD-OA wind turbine is shown in operation at the Clayton site in Figure 1. The operational history for the Clayton MOD-OA WTG during its initial phases of use is as follows:

<u>Date</u>	<u>Event</u>
● November 30, 1977	First rotation
● January 19, 1978	First 100 hours (0.36 megaseconds) of operation
● January 28, 1978	Formal dedication of wind turbine
● March 6, 1978	Turned over the operation by the utility
● May 24, 1978	1000 hours (3.6 megaseconds) of operation [94,000 kW-hr (338.GJ)]

SUPPLEMENTARY MOD-OA REPORTS

Two supplementary reports to this MOD-OA engineering drawing report provide the details¹ and an executive summary² of the design and analysis of the MOD-OA wind turbine generator.

¹ Andersen, T.S., Bodenschatz, C.A., Eggers, A.G., Hughes, P.S., Lampe, R.F., Lipner, M.H., and Schornhorst, J.R., "MOD-OA 200 kW Wind Turbine Generator Design and Analysis Report," DOE/NASA/O163-2, NASA CR-165128, and AESD-TME-3052, August 1980.

² Andersen, T.S., Bodenschatz, C.A., Eggers, A.G., Hughes, P.S., Lampe, R.F., Lipner, M.H., and Schornhorst, J.R., "Executive Summary. MOD-OA 200 kW Wind Turbine Generator Design and Analysis Report," DOE/NASA/O163-1, NASA CR-165127, and AESD-TME-3051, August 1980.



Figure 1. MOD-0A 200 kW Wind Turbine
Generator; Clayton, NM

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DISCUSSION

The MOD-OA engineering drawings follow this discussion in numerical order (by Westinghouse drawing number). The mechanical drawings (Westinghouse drawings 1015F-- and 1017F--) are followed by the electrical drawings (1016F--). Table 1 provides a list of drawings and title in this order with cross-reference to the number and title of the NASA drawings from which the Westinghouse drawings were prepared. The NASA drawings formed the basis for assembly and installation of the MOD-OA wind turbine generators and are listed in numerical order in Table 2 with cross reference to the number and title of the corresponding Westinghouse drawings.

TABLE 1
LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR

CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	*REV.	TITLE OF DRAWING
1015F01	11	CR758862 CR758863	1 1	K G	(NASA) MOD-OA 200 kW WIND TURBINE GENERATOR ASSEMBLY (NASA) MOD-OA 200 kW WIND TURBINE GENERATOR ASSEMBLY (W) ASSEMBLY MOD-OA 200 kW WIND TURBINE GENERATOR
1015F02	1	CD758836	1	A	(NASA) HUB FORGING (W) HUB PITCH FORGING MOD-OA 200 kW WIND TURBINE GENERATOR
1015F03	4	CR758864 CD758875	1 1	D C	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB (NASA) SUB-ASSEMBLY BEARING & GEAR ADJUSTMENT (W) PITCH CONTROL HUB ASS'Y MOD-OA 200 kW WIND TURB. GEN.
1015F04	1	CF758865	1	B	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 1 (W) HUB PITCH DETAIL MOD-OA 200 kW WIND TURBINE GENERATOR
1015F05	1	CD758866	1	A	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 2 (W) BLADE SPINDLE SLEEVE MOD-OA 200 kW WIND TURBINE GEN.
1015F06	1	CD758867	1	D	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 3 (W) BLADE SPINDLE HOUSING MOD-OA 200 kW WIND TURBINE GEN.
1015F07	1	CD758868	1	C	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 4 (W) DRIVE SHAFT BEARING RETAINER MOD-OA 200 kW WTG
1015F08	1	CD758869	1	B	(NASA) ASS'Y-GEAR TYPE PITCH CONTROL HUB-DETAILS 5 THRU 11 (W) HUB PITCH DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
1015F09	1	CD758870	1	B	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 12 (W) HUB PITCH DRIVE SHAFT MOD-OA 200 kW WIND TURBINE GEN.
1015F10	1	CD758872	1	C	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 15 (W) HUB PITCH BEVEL PINION GEAR MOD-OA 200 kW WTG
1015F11	1	CD758873	1	C	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 16 (W) HUB PITCH BEVEL GEAR SECTOR MOD-OA 200 kW WTG

*All Westinghouse Drawings are Revision - (i.e., Unrevised)

TABLE 1 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1015F12	1	CF758874	1	C	(NASA) ASS'Y-GEAR TYPE PITCH CONTROL HUB-DETAILS 17 THRU 25 (W) HUB PITCH DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
1015F13	1	NONE	-	-	(W) GENERAL OUTLINE MOD-OA 200 kW WIND TURBINE GENERATOR
1015F14	6	CR758877	1	E	(NASA) BEDPLATE (W) BEDPLATE MOD-OA 200 kW WIND TURBINE GENERATOR
1015F15	3	CR758878	1	D	(NASA) FWD CENTER SHROUD (W) FORWARD CENTER SHROUD MOD-OA 200 kW WIND TURBINE GEN.
1015F16	4	CR758879	1	E	(NASA) REAR CENTER SHROUD (W) REAR CENTER SHROUD MOD-OA 200 kW WIND TURB. GENERATOR
1015F17	1	CF758880	1	A	(NASA) NOSE CONE (W) NOSE CONE MOD-OA 200 kW WIND TURBINE GENERATOR
1015F18	1	CF758881	1	C	(NASA) PROP CONE (W) PROP CONE (SPINNER) MOD-OA 200 kW WIND TURBINE GEN.
1015F19	1	CD758882	1	B	(NASA) PROP HUB & CONE COVER PLATE (W) BLADE OPENING COVERS MOD-OA 200 kW WIND TURBINE GEN.
1015F20	1	CD758883	1	-	(NASA) CONE SUPPORT DETAILS (W) CONE SUPPORT DETAILS MOD-OA 200 kW WIND TURBINE GEN.
1015F21	1	CD758884	1	A	(NASA) FRONT HUB SUPPORT (W) MOUNTING PANEL-PROP CONE MOD-OA 200 kW WIND TURB. GEN.
1015F22	1	CD758885	1	-	(NASA) REAR HUB SUPPORT (W) SUPPORT-PROP CONE MOD-OA 200 kW WIND TURBINE GENERATOR
1015F23	2	CF758886	1	C	(NASA) WALKWAYS (W) WALKWAYS MOD-OA 200 kW WIND TURBINE GENERATOR
1015F24	1	CF758887	1	A	(NASA) ADJ. GENERATOR BOTTOM PLATE (W) BOTTOM PLATE-GENERATOR ADJUSTMENT MOD-OA 200 kW WTG

ALL Westinghouse Drawings are Revision -

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TABLE 1 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-0A 200 kW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	* REV.	TITLE OF DRAWING
1015F25	1	CF758888	1	A	(NASA) ADJ. GEN. TOP & LOCK BAR (W) GENERATOR ADJUSTMENT DETAILS
1015F26	1	CF758889	1	C	(NASA) DETAILS (W) DETAILS MOD-0A 200 kW WIND TURBINE GENERATOR
1015F27	1	CF758890	1	C	(NASA) MAIN DRIVE SHAFT (W) MAIN DRIVE SHAFT MOD-0A 200 kW WIND TURBINE GENERATOR
1015F28	1	CD758892	1	-	(NASA) BRAKE SUPPORT (W) BRAKE SUPPORT MOD-0A 200 kW WIND TURBINE GENERATOR.
1015F29	1	CD758895	1	-	(NASA) PULLEY DRIVE SHAFT (W) PULLEY DRIVE SHAFT MOD-0A 200 kW WIND TURB. GENERATOR
1015F30	2	CR758896	1	E	(NASA) MAIN YAW BRG SUPPORT (W) MAIN YAW BRG SUPPORT MOD-0A 200 kW WIND TURBINE GEN.
1015F31	1	CF758897	1	A	(NASA) YAW DRIVE BRG HOUSING (W) YAW DRIVE BRG HOUSING MOD-0A 200 kW WIND TURBINE GEN.
1015F32	1	CF758898	1	-	(NASA) YAW DRIVE SHAFT (W) YAW DRIVE SHAFT MOD-0A 200 kW WIND TURBINE GENERATOR
1015F33	1	CF758899	1	-	(NASA) YAW BRG RETAINER & SEAL (W) YAW-BRG RETAINERS MOD-0A 200 kW WIND TURBINE GENERATOR
1015F34	1	CD758900	1	A	(NASA) INTER. YAW DRIVE SHAFT (W) INTERMEDIATE YAW DRIVE SHAFT MOD-0A 200 kW WTG
1015F35	1	CD758901	1	B	(NASA) YAW DRIVE MOUNTING (W) YAW DRIVE MOUNTING PLATE MOD-0A 200 kW WIND TUR. GEN.
1015F36	1	CD758902	1	C	(NASA) SHEAR KEY & THRUST BUTTON (W) SHEAR KEY & THRUST BUTTON MOD-0A 200 kW WIND TUR. GEN.
1015F37	1	CD758903	1	B	(NASA) MAIN SLIP RING SUPPORT HORIZ. (W) MAIN SLIP RING SUPPORT (HORIZ.) MOD-0A 200 kW WTG

* All Westinghouse Drawings are Revision -

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TABLE 1 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1015F38	2	CF758904	1	C	(NASA) BREAK PRESS. SYST. (W) PIPING SCHEMATIC & PANEL LAYOUT BREAK CHAMBER & PRESSURIZING SYSTEM MOD-OA 200 kW WIND TURBINE GENERATOR
1015F39	1	CC758905 CC758907 CC758931	1 1 1	- - A	(NASA) LIFTING BOOM (NASA) "U" BOLT - BOTTLE HOLD DOWN (NASA) WIND SPEED MOUNTING BRACKET (W) LIFTING BOOM, U-BOLT & WIND SPEED & DIRECTIONAL MOUNT- BRACKET MOD-OA 200 kW WIND TURBINE GENERATOR
1015F40	1	CD758906	1	-	(NASA) HYD PACK SUPPORT BED (W) HYDRAULIC PACKAGE SUPPORT BED MOD-OA 200 kW WTG
1015F41	1	CD758909	1	B	(NASA) LIFTING BEAM & SLING ASSEMBLY (W) LIFTING BEAM & SLING ASSEMBLY MOD-OA 200 kW WTG
1015F42	1	CD758908	1	A	(NASA) HYD. PACK FAN SHROUD (W) HYDRAULIC PACKAGE FAN SHROUD MOD-OA 200 kW WTG
1015F43	3	CR758975 CR758976	1 1	A C	(NASA) SENSOR LOCATION (PLAN VIEW) (NASA) SENSOR LOCATION (ELEVATION VIEW) (W) SENSOR LOCATIONS & CONDUIT ROUTING MOD-OA 200 kW WTG
1015F44	1	CF758910	1	B	(NASA) DETAILS (W) HIGH SPEED BRAKE DETAILS MOD-OA 200 kW WIND TURB. GEN.
1015F45	1	CF758912	1	A	(NASA) ROTARY COUPLING SUPPORT (W) DEUBLIN CPLG SUPPORT BRACKET MOD-OA 200 kW WTG
1015F46	1	CD758913	1	B	(NASA) LADDER (W) LADDER WELDED ASSEMBLY MOD-OA 200 kW WIND TURB. GEN.
1015F47	1	CF758914	1	-	(NASA) REAR PROP CONE SUPPORTS (W) REAR PROP CONE SUPPORT MOD-OA 200 kW WIND TURBINE GEN.
1015F48	1	CD758915	1	A	(NASA) HYD SUPPLY CLAMP & SUPPORTS (W) HYDRAULIC SUPPLY CLAMP & SUPPORT MOD-OA 200 kW WTG

* All Westinghouse Drawings are Revision -

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TABLE 1 (Cont'd.)

LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1015F49	2	CF758916	1	C	(NASA) CO AXIAL FLOW LINE ASSEMBLY (W) CO AXIAL FLOW LINE - ASSEMBLY & DETAIL MOD-OA 200 kW WIND TURBINE GENERATOR
1015F50	1	CD758919	1	A	(NASA) SPINNER RAIN GUARD (W) SPINNER RAIN GUARD MOD-OA 200 kW WIND TURBINE GENERATOR
1015F51	1	CF758920	1	A	(NASA) SLIP RING ANTI-ROTATION SUPPORT & BRKT. (W) SLIP RING ANTI-ROTATION SUPPORT & BRKT. MOD-OA 200 kW WIND TURBINE GENERATOR
1015F52	3	CF758921 CF758922 CF758923	1 1 1	A A -	(NASA) HYDRAULIC PUMP PACKAGE ASSEMBLY (W) HYDRAULIC PUMP PACKAGE ASSY MOD-OA 200 kW WTG
1015F53	2	CF758924	1	-	(NASA) DETAILS (W) HYDRAULIC PUMP PACKAGE ASSY MOD-OA 200 kW WTG
1015F54	1	CR758926	1	-	(NASA) DETAILS (W) HYDRAULIC PUMP DETAILS MOD-OA 200 kW WIND TURB. GEN.
1015F55	4	CR758926	1	B	(NASA) ACTUATOR ASSEMBLY (W) ACTUATOR ASSEMBLY MOD-OA 200 kW WIND TURB. GEN.
1015F56	1	CF758927	1	A	(NASA) DETAILS (W) ACTUATOR ASSY DETAILS MOD-OA 200 kW WIND TURB. GEN.
1015F57	1	CF758928	1	A	(NASA) DETAILS (W) ACTUATOR ASSY DETAILS MOD-OA 200 kW WIND TURB. GEN.
1015F58	1	CF758929 CF758929	1	B -	(NASA) HYDRAULIC SCHEMATIC DIAGRAM (NASA) OPERATIONAL REQUIREMENTS & PARTS LIST (W) CONTROL SCHEMATIC DIAGRAM MOD-OA 200 kW WTG
1015F59	1	CF758930	1	B	(NASA) INTERFACE-METAL BLADE TO PITCH CONTROL HUB (W) INTERFACE-BLADE TO HUB MOD-OA 200 kW WIND TURBINE GEN.
1015F60	1	None			(NASA) NONE (W) DETAILS MOD-OA 200 kW WTG

All Westinghouse Drawings are Revision -

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TABLE 1 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	* REV.	TITLE OF DRAWING
1015F61	1	CD758932	1	A	(NASA) UPPER BRAKE SUPPORT (W) UPPER BRAKE SUPPORT MOD-OA 200 kW WIND TURBINE GEN.
1015F62	1	CD758933	1	-	(NASA) TURNTABLE BEARING & GEAR ASSY (W) TURNTABLE BRG & GEAR ASSY MOD-OA 200 kW WIND TURB. GEN.
1015F63	1	CD758934	1	C	(NASA) LIFTING BEAM (W) LIFTING BEAM DETAILS MOD-OA 200 kW WIND TURBINE GEN.
1015F64	1	CF758936	1	A	(NASA) EXTERIOR FINISH-FIBERGLAS HOUSING (W) EXTERIOR FINISH-FIBERGLAS HOUSING MOD-OA 200 kW WTG
1015F65	1	CB758490 CC758937	1 1	A B	(NASA) BUTTRES RING RETAINER (NASA) TRANSFORMER BRACKETS (W) TRANSFORMER ANTI-ROTATION BRACKET & BUTTRES RING RETAINER DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
1015F66	1	CD758938	1	-	(NASA) OUTPUT SHAFT CONFIGURATION FOR DOUBLE REDUCTION WORM GEAR UNIT (W) DOUBLE REDUCTION WORM GEAR UNIT YAW DRIVE MOD-OA 200 kW WIND TURBINE GENERATOR
1015F67	1	CF758939	1	A	(NASA) TOWER SLIP RING ANTI-ROTATION ASSEMBLY (W) TOWER SLIP RING ANTI-ROTATION ASSY MOD-OA 200 kW WTG
1015F68	1	CC758871 CC758945	1 1	A A	(NASA) DETAILS (NASA) BUTTRES RING (W) DETAIL MOD-OA 200 kW WIND TURBINE GENERATOR
1015F69	1	CF758946	1	B	(NASA) MOD OA WIND TURBINE GENERATOR SITE PLAN & GENERAL ASSY (W) SITE PLAN & GENERAL ASSY MOD-OA 200 kW WIND TURBINE GEN.
1015F70	4	CF758948 CF758949 CF758950	1 1 1	B A A	(NASA) STRUCTURAL-TOWER ELEVATION & DETAILS (NASA) STRUCTURAL-TOWER PLANS & DETAILS (NASA) STRUCTURAL-TOWER DETAILS (W) TOWER ELEVATIONS, PLAN & DETAILS MOD-OA 200 kW WTG
1015F71	2	CF758952	1	-	(NASA) STRUCTURAL-ASSEMBLY STAND PLAN & DETAILS (W) ASSY STAND PLAN & DETAILS MOD-OA 200 kW WIND TURB. GEN.

* All Westinghouse Drawings are Revision -

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TABLE 1 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	* REV.	TITLE OF DRAWING
1015F72	1	CD758957	1	B	(NASA) SPEED INCREASER-DIMENSIONAL REQUIREMENTS (W) SPECIAL SPEED INCREASER MOD-OA 200 kW WIND TURBINE
1015F73	1	CD758972	1	A	(NASA) GEAR BOX SLIP RING ASSEMBLY (W) GEAR BOX SLIP RING ASSEMBLY-ELECTRICAL MOD-OA 200 kW WIND TURBINE GENERATOR
1015F74	1	CF758973	1	A	(NASA) TOWER SLIP RING ASSY-ELECTRICAL (W) TOWER SLIP RING ASSY (ELEC) MOD-OA 200 kW WTG
1015F75	1	CF758974	1	B	(NASA) TOWER SLIP RING ASSY-ELECTRICAL (W) TOWER SLIP RING ASSY (ELEC) MOD-OA 200 kW WTG
1015F76	2	CF758981	1	B	(NASA) ELECTRICAL-EQUIPMENT LAYOUT, LIGHTING, GROUNDING & DETAILS (W) ELECTRICAL-EQUIPMENT LAYOUT, LIGHTING, GROUNDING & DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
1015F77	2	CF758982	1	B	(NASA) ELECTRICAL-POWER CONTROL & INSTRUMENTATION TERMINAL BOXES & DETAILS (W) ELECTRICAL-POWER CONTROL & INSTRUMENTATION TERMINAL BOXES & DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
1015F78	1	CD758999	1	-	(NASA) INTERMEDIATE SHAFT (W) HIGH SPEED SHAFT ASSEMBLY MOD-OA 200 kW WIND TURB. GEN.
1015F79	1	CF758973 CF758974	1 1	A B	(NASA) TOWER SLIP RING ASSY-ELECTRICAL (NASA) TOWER SLIP RING ASSY-ELECTRICAL (W) TOWER SLIP RING ASSY MOD-OA 200 kW WIND TURBINE GEN.
1015F80	3	CF759019 CF760485	1 1	G A	(NASA) HYDRAULIC SCHEMATIC YAW BRAKE (NASA) HYDRAULIC SYSTEM PANEL YAW BRAKE (W) YAW BRAKE HYDRAULIC SYSTEM PANEL & SCHEMATIC MOD-OA 200 kW WIND TURBINE GENERATOR
1015F81	1	CC759020 CC760504	1 1	- B	(NASA) SPACERS YAW COUPLINGS (NASA) HUB SEAL HOLDER (W) DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR

* All Westinghouse Drawings are Revision -

TABLE 1 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	* REV.	TITLE OF DRAWING
1015F82	1	CF759021	1	-	(NASA) PULLEY BEARING SUPPORT (W) PULLEY BEARING SUPPORT MOD-OA 200 kW WIND TURB. GEN.
1015F83	1	CD759023	1	A	(NASA) DETAILS FOR HYDRAULIC ACTUATOR (W) DETAILS FOR HYDRAULIC ACTUATOR MOD-OA 200 kW MTG
1015F84	1	CF759024	1	A	(NASA) DETAILS FOR PUMP PACKAGE (W) PUMP PACKAGE DETAILS MOD-OA 200 kW WIND TURBINE GEN.
1015F85	2	CF760271	1	A	(NASA) STRUCTURAL-ASSY STAND PLAN & DETAILS (W) ASSY STAND PLAN & DETAILS MOD-OA 200 kW WIND TURB. GEN.
1015F86	2	CF760300	1	-	(NASA) STRUCTURAL-TOWER & ASSY STAND-FOUNDATIONS & DETAILS- CLAYTON N.M. (W) TOWER & ASSY STAND FOUNDATION & DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
1015F87	1	CC760476	1	-	(NASA) GREASE & PRESSURE FITTINGS (W) GREASE & PRESSURE FITTINGS MOD-OA 200 kW MTG
1015F88	1	CD760477	1	-	(NASA) HUB COUNTER WEIGHTS (W) HUB COUNTER WEIGHTS MOD-OA 200 kW WIND TURBINE GEN.
1015F89	1	CF760478	1	-	(NASA) DETAILS (W) DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
1015F90	1	CF760484	1	A	(NASA) HYDRAULIC SYSTEM PANEL YAW BRAKE (W) HYDRAULICS COMPONENTS MTG PANEL MOD-OA 200 kW MTG
1015F91	1	CF760484	1	A	(NASA) HYDRAULIC SYSTEM PANEL YAW BRAKE (W) HYDRAULIC SYSTEM PANEL YAW BRAKE-STRUCTURAL SUPPORT MOD-OA 200 kW WIND TURBINE GENERATOR
1015F92	1	CD760486	1	A	(NASA) AIR BOTTLE GAGE BRACKET (W) AIR BOTTLE GAGE BRACKET DETAILS MOD-OA 200 kW MTG

* All Westinghouse Drawings are Revision -

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Table 1 (Cont'd)

LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR					CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS	
WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	*REV.	TITLE OF DRAWING	
1015F93	1	CC759000 CC760487	1	A -	(NASA) FLUID COUPLER ADAPTER (NASA) GEAR ALT. LOW SPEED SHAFT (W) DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR	
1015F94	1	CC760488 CC760500	1	A -	(NASA) DUBLIN MOUNT (NASA) SLIP RING COVER (W) DUBLIN MOUNT & SLIP RING DUST COVER MOD-OA 200 kW WTG	
1015F95	2	CF760506 CF760520	1	-	(NASA) ELECTRICAL-LOW SPEED SHAFT STRAIN GAGE LOCATION CONNECTION DIAGRAM & INSTALLATION (NASA) ELECTRICAL-LOW SPEED SHAFT STRAIN GAGE LOCATION (W) ELECTRICAL-LOW SPEED SHAFT STRAIN GAGE LOCATION MOD-OA 200 kW WIND TURBINE GENERATOR	
1015F96	1	CF760491	1	-	(NASA) YAW BRAKE ASSEMBLY (W) YAW BRAKE ASSY MOD-OA 200 kW WIND TURBINE GENERATOR	
1015F97	1	C0760492	1	-	(NASA) YAW BRAKE DETAILS (W) YAW BRAKE DETAIL MOD-OA 200 kW WIND TURBINE GENERATOR	
1015F98	1	C0760493	1	-	(NASA) YAW BRAKE DETAILS (W) YAW BRAKE DETAIL MOD-OA 200 kW WIND TURBINE GENERATOR	
1015F99	1	CC760512 C0760513	1	-	(NASA) FIXTURE FOR SEAL INSTALLATION (NASA) SEAL INSTALLATION INSTRUCTIONS (W) FIXTURES FOR SEAL INSTALLATION MOD-OA 200 kW WTG	
1017F02	1	NONE			(NASA) NONE (W) GENERATOR TACH MOUNT ASSY WITH KEYS & DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR	
1017F03	2	NONE			(NASA) NONE (W) DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR	

*All Westinghouse Drawings are Revision -

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TABLE 1 (Cont'd.)

LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1017F04	1	NONE			(NASA) NONE (W) DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
1017F05	1	NONE			(NASA) NONE (W) HYDRAULIC FITTINGS MOD-OA 200 kW WIND TURBINE GENERATOR
1016F01	4	CF758968 CF758969 CF758970	1 1 1	C E C	(NASA) ELECTRICAL-INSTRUMENTATION SENSOR WIRING LIST (NASA) ELECTRICAL-INSTRUMENTATION SENSOR WIRING LIST (NASA) ELECTRICAL-INSTRUMENTATION SENSOR WIRING LIST (W) INSTRUMENTATION SENSOR WIRING LIST MOD-OA 200 kW WTG
1016F02	1	CF758971	1	E	(NASA) ELECTRICAL-POWER ONE LINE CONNECTION DIAGRAM & SCHEDULE OF DNG. (W) POWER ONE LINE CONNECTION DIAGRAM SCHEDULE OF DNG'S MOD-OA 200 kW WIND TURBINE
1016F03	1	CF758977	1	C	(NASA) ELECTRICAL-AUXILIARY ELECTRONIC PACKAGE CONNECTION & INTERCONNECTION DIAGRAM (W) AUXILIARY ELECTRONIC PACKAGE CONNECTION & INTERCONNECTION DIAGRAM MOD-OA 200 kW WIND TURBINE
1016F04	2	CF758978	1	D	(NASA) ELECTRICAL-SENSOR IDENTIFICATION LIST (CLAYTON) (W) SENSOR IDENTIFICATION LIST MOD-OA 200 kW WIND TURBINE
1016F05	1	CF758979	1	F	(NASA) ELECTRICAL-CABLE INTERCONNECTION (W) ELECTRICAL-CABLE INTERCONNECTION MOD-OA 200 kW WTG
1016F06	1	CF758980	1	-	(NASA) ELECTRICAL-INSTRUMENTATION INTERCONNECTION DIAGRAM PHASE I TEST (W) INSTRUMENTATION INTERCONNECTION DIAGRAM LERC-ERB CM 72 PHASE I TEST MOD-OA 200 kW WIND TURBINE GENERATOR
1016F07	1	CF758983	1	C	(NASA) ELECTRICAL-GEAR BOX SLIP RING CONNECTION DIAGRAM (W) GEAR BOX SLIP RING CONNECTION DIAGRAM MOD-OA 200 kW WTG
1016F08	1	CF758984	1	G	(NASA) ELECTRICAL-TOWER SLIP RING CONNECTION DIAGRAM (W) TOWER SLP RING CONNECTION DIAGRAM MOD-OA 200 kW WTG

* All Westinghouse Drawings are Revision -

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TABLE 1 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1016F09	1	CF758985	1	A	(NASA) ELECTRICAL-STATIC SHAFT TEST INTERCONNECTION DIAGRAM (W) PHASE 1 TEST (W) STATIC SHAFT TEST INTERCONNECTION DIAGRAM LERC-ERB CW 22 PHASE 1 TEST MOD-OA 200 kW WIND TURBINE GENERATOR
1016F10	1	CF759025	1	C	(NASA) ELECTRICAL-TOWER SENSOR LOCATION PLAN, DETAILS, PIN LAYOUT & ELECTRICAL CONNECTION DIAGRAM (W) TOWER SENSOR LOCATION PLAN DETAILS, PIN LAYOUT & ELECTRICAL CONNECTION DIAG. MOD-OA 200 kW WIND TURBINE
1016F11	2	CF759026	1	E	(NASA) ELECTRICAL SAFETY SHUTDOWN-ELEMENTARY DIAGRAM (W) ELECTRICAL SAFETY SHUTDOWN-ELEMENTARY DIAGRAM MOD-OA 200 kW WIND TURBINE GENERATOR
1016F12	2	CF759027	1	F	(NASA) ELECTRICAL-CONTROL ELEMENTARY DIAGRAM (W) CONTROL ELEMENTARY DIAGRAM MOD-OA 200 kW MTG
1016F13	1	CF759028	1	D	(NASA) ELECTRICAL-YAW CONTROLLER CONNECTION DIAGRAM (W) YAW CONTROLLER CONNECTION DIAGRAM MOD-OA 200 kW MTG
1016F14	1	CF759029	1	A	(NASA) ELECTRICAL-MICRO PROCESSOR FLOW DIAGRAM (W) MICRO PROCESSOR FLOW DIAGRAM MOD-OA 200 kW MTG
1016F15	1	CF759030	1	C	(NASA) ELECTRICAL-CONNECTION DIAGRAM FOR PITCH CONTROLLER (W) ELECTRICAL CONNECTION DIAGRAM PITCH CONTROLLER MOD-OA 200 kW WIND TURBINE GENERATOR
1016F16	1	CF759031	1	E	(NASA) ELECTRICAL-MICRO PROCESSOR BLOCK DIAGRAM (W) MICROPROCESSOR BLOCK DIAGRAM MOD-OA 200 kW MTG
1016F17	1	CF759032	1	E	(NASA) ELECTRICAL-SUPERVISORY CONTROLLER INTERCONNECTION CENTRAL & REMOTE (W) SUPERVISORY CONTROLLER INTERCONNECT CENTRAL & REMOTES STATIONS & DETAIL "A" MOD-OA 200 kW WIND TURBINE GENERATOR
1016F18	2	CF759033	1	E	(NASA) ELECTRICAL-PITCH CONTROLLER SCHEMATIC (W) PITCH CONTROLLER SCHEMATIC MOD-OA 200 kW WIND TURBIN

* A: Westinghouse Drawings are Revision -

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TABLE 1 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1016F19	2	CF759034	1	F	(NASA) ELECTRICAL-CONTROL PANEL LAYOUTS & RELAY PANEL CONNECTION DIAGRAMS (W) CONTROL PANEL LAYOUTS & RELAY PANEL CONNECTION DIAGRAMS MOD-OA 200 kW MTG
1016F20	7	CF759035 CF759036 CF759037 CF759038 CF759039	1 1 1 1 1	C E F E F	(NASA) ELECTRICAL-480 V SWITCHGEAR ONE LINE DIAGRAM (NASA) ELECTRICAL-480 V SWITCHGEAR-ELEMENTARY 3 LINE DIAGRAM (NASA) ELECTRICAL-480 V SWITCHGEAR-UNIT NO. 1 CONNECTION DIA. (NASA) ELECTRICAL-480 V SWITCHGEAR-UNIT NO. 2 CONNECTION DIA. (NASA) ELECTRICAL-480 V SWITCHGEAR-UNIT NO. 3 CONNECTION DIA. (W) 480 V SWITCHGEAR WIRING DIAGRAM UNIT NOS. 1, 2 & 3 MOD-OA 200 kW MTG
1016F21	3	CF759040 CF759041 CF759042	1 1 1	D E D	(NASA) ELECTRICAL-CONNECTION DIAGRAM FOR TERMINAL BOXES 2B & 3B (NASA) ELECTRICAL-CONNECTION DIAGRAM FOR TERMINAL BOXES 2A & 2B (NASA) ELECTRICAL-CONNECTION DIAGRAM FOR TERMINAL BOXES NO. 4 (W) CONNECTION DIAGRAMS FOR TERMINAL BOXES, 2B, 3B, 2A, 3A & NO. 4 MOD-OA 200 kW MTG
1016F22	1	CF759043	1	F	(NASA) ELECTRICAL-ELECTRICAL CONNECTION DIAGRAM SAFETY SHUTDOWN PANEL (W) ELECTRICAL CONNECTION DIAGRAM SAFETY SHUTDOWN PANEL MOD-OA 200 kW MTG
1016F23	1	CF759044	1	E	(NASA) ELECTRICAL-YAW BRAKE ELEMENTARY & CONNECTION DIAGRAM (W) YAW BRAKE ELEMENTARY & CONNECTION DIAGRAM MOD-OA 200 kW MTG
1016F24	1	CF759045	1	C	(NASA) ELECTRICAL-MICRO PROCESSOR CIRCUIT CARD LOCATOR RACK A & RACK B (W) MICRO PROCESSOR CIRCUIT CARD LOCATION, RACK A & RACK B MOD-OA 200 kW MTG
1016F25	1	CF759047	1	D	(NASA) ELECTRICAL-YAW CONTROL PANEL LAYOUT (W) YAW CONTROL PANEL LAYOUT MOD-OA 200 kW MTG

* All Westinghouse Drawings are Revision -

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Table 1 (Cont'd)

LIST OF DRAWINGS FOR THE MOD-0A 200 KW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	*REV.	TITLE OF DRAWING
1016F26	1	CF759048	1	D	(NASA) ELECTRICAL-CONTROL RACK ANALOG TERMINAL STRIP INTERCONNECTION (W) CONTROL RACK ANALOG TERMINAL STRIP INTERCONNECTION MOD-0A 200 KW WIND TURBINE GENERATOR
1016F27	1	CF759049	1	E	(NASA) ELECTRICAL-ELECTRICAL CONNECTION DIAGRAM AMPLIFIER PANEL (W) ELECTRICAL CONNECTION DIAGRAM AMPLIFIER PANEL MOD-0A KW WIND TURBINE GENERATOR
1016F28	4	CF760480	3	-	(NASA) ELECTRICAL-INTRUSION ALARM (W) INTRUSION ALARM SYSTEM ALARM SYSTEM & ELEC. ELEMENTARY CONNECTION DIAGRAM & INSTALLATION DETAIL MOD-0A 200 KW WTG
1016F30	1	CD760481 CD760482	1 1	B -	(NASA) ELECTRICAL-MICROPROCESSOR TIMER-CARD SCHEMATIC (NASA) ELECTRICAL-MICROPROCESSOR RELAY-CARD SCHEMATIC (W) MICROPROCESSOR TIMER-CARD AND RELAY-CARD SCHEMATIC MOD-0A 200 KW WTG
1016F31	1	CF760494	1	B	(NASA) ELECTRICAL-ELAPSE TIME PANEL (W) ELAPSE TIME PANEL MOD-0A 200 KW WIND TURBINE GENERATOR
1016F32	1	CF760495	1	C	(NASA) ELECTRICAL-RECLOSER & CIRCUIT BREAKER NO. 2 ELEMENTARY & WIRING DIAGRAMS (W) RECLOSER & CIRCUIT BREAKER NO. 2 ELEMENTARY & WIRING DIAGRAMS MOD-0A 200 KW WIND TURBINE GENERATOR
1016F33	1	CF760496	1	D	(NASA) ELECTRICAL-CLIMATRONICS & REFERENCE PANEL CONNECTION DIAGRAM (W) ELECTRICAL CONNECTION DIAGRAM CLIMATRONICS & REFERENCE PANEL MOD-0A 200 KW WIND TURBINE GENERATOR
1016F34	1	CF760497	1	B	(NASA) ELECTRICAL-PITCH CONTROLLER INTERNAL TERMINATIONS (W) PITCH CONTROLLER INTERNAL TERMINATIONS MOD-0A 200 KW WTG

*All Westinghouse Drawings are Revision -

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Table 1 (Cont'd)

LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	*REV.	TITLE OF DRAWING
1016F35	1	CF760546	1	-	(NASA) ELECTRICAL-SYNCHRO-D.C. CONVERTER-AEROVANE TRANSLATER SCHEMATIC (W) SYNCHRO-D.C. CONVERTER AEROVANE TRANSLATOR SCHEMATIC MOD-OA 200 kW WIND TURBINE GENERATOR
1016F36	1	CF760552	1	-	(NASA) DAYTRONICS CONNECTION DIAGRAM-ELECTRICAL (W) DAYTRONICS CONNECTION DIAGRAM MOD-OA 200 kW WTG

*All Westinghouse Drawings are Revision -

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TABLE 2
LIST OF DRAWINGS FOR THE MOD-OA 200 KW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	*REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CD758836	1	A	1015F02	1	(NASA) HUB FORGING (W) HUB PITCH FORGING MOD OA-200 KW WIND TURBINE GENERATOR
CR758862	1	F	1015F01	11	(NASA) MOD-OA 200 KW WIND TURBINE GENERATOR ASSEMBLY (W) ASSEMBLY MOD-OA 200 KW WIND TURBINE GENERATOR
CR758863	1	G	1015F01	11	(NASA) MOD-OA 200 KW WIND TURBINE GENERATOR ASSEMBLY (W) ASSEMBLY MOD-OA 200 KW WIND TURBINE GENERATOR
CR758864	1	D	1015F03	4	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB (W) PITCH CONTROL HUB ASS'Y MOD-OA 200 KW WIND TURB. GEN.
CF758865	1	B	1015F04	1	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 1 (W) HUB PITCH DETAIL MOD-OA 200 KW WIND TURBINE GENERATOR
CD758866	1	A	1015F05	1	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 2 (W) BLADE SPINDLE SLEEVE MOD-OA 200 KW WIND TURBINE GEN.
CD758867	1	D	1015F06	1	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 3 (W) BLADE SPINDLE HOUSING MOD-OA 200 KW WIND TURBINE GEN.
CD758868	1	C	1015F07	1	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 4 (W) DRIVE SHAFT BEARING RETAINER MOD-OA 200 KW WTG
CD758869	1	B	1015F08	1	(NASA) ASS'Y-GEAR TYPE PITCH CONTROL HUB-DETAILS 5 THRU 11 (W) HUB PITCH DETAILS MOD-OA 200 KW WIND TURBINE GENERATOR
CD758870	1	A	1015F09	1	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 12 (W) HUB PITCH DRIVE SHAFT MOD-OA 200 KW WIND TURBINE GEN.
CC758871	1	A	1015F68	1	(NASA) DETAILS (W) HUB PITCH DETAILS MOD-OA 200 KW WIND TURBINE GENERATOR

*All Westinghouse Drawings are Revision - (i.e., Unrevised)

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TABLE 2 (Cont'd.)
LIST OF DRAWINGS FOR THE MOO-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

ASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CD758872	1	C	1015F10	1	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 15 (W) HUB PITCH BEVEL PINION GEAR MOO-OA 200 kW WTG
CD758873	1	C	1015F11	1	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 16 (W) HUB PITCH BEVEL GEAR SECTOR MOO-OA 200 kW WTG.
CF758874	1	C	1015F12	1	(NASA) ASS'Y-GEAR TYPE PITCH CONTROL HUB-DETAILS 17 THRU 25 (W) HUB PITCH DETAILS MOO-OA 200 kW WIND TURBINE GENERATOR
CD758875	1	C	1015F03	4	(NASA) SUB-ASSEMBLY BEARING & GEAR ADJUSTMENT (W) PITCH CONTROL HUB ASS'Y MOO-OA 200 kW WIND TURB. GEN.
CR758877	1	E	1015F14	6	(NASA) BEDPLATE (W) BEDPLATE MOO-OA 200 kW WIND TURBINE GENERATOR
CR758878	1	D	1015F15	3	(NASA) FWD CENTER SHROUD (W) FORWARD CENTER SHROUD MOO-OA 200 kW WIND TURBINE GEN.
CR758879	1	E	1015F16	4	(NASA) REAR CENTER SHROUD (W) REAR CENTER SHROUD MOO-OA 200 kW WIND TURB. GENERATOR
CF758880	1	A	1015F17	1	(NASA) NOSE CONE (W) NOSE CONE MOO-OA 200 kW WIND TURBINE GENERATOR
CF758881	1	C	1015F18	1	(NASA) PROP CONE (W) PROP CONE (SPINNER) MOO-OA 200 kW WIND TURBINE GEN.
CD758882	1	B	1015F19	1	(NASA) PROP HUB & CONE COVER PLATE (W) BLADE OPENING COVERS MOO-OA 200 kW WIND TURBINE GEN.
CD758883	1	-	1015F20	1	(NASA) CONE SUPPORT DETAILS (W) CONE SUPPORT DETAILS MOO-OA 200 kW WIND TURBINE GEN.
CD758884	1	A	1015F21	1	(NASA) FRONT HUB SUPPORT (W) MOUNTING PANEL-PROP CONE MOO-OA 200 kW WIND TURB. GEN.

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-0A 200 KW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

ASA LEWIS WING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
C0758885	1	-	1015F22	1	(NASA) REAR HUB SUPPORT (W) SUPPORT-PROP CONE MOD-0A 200 KW WIND TURBINE GENERATOR
CF758885	1	C	1015F23	2	(NASA) WALKWAYS (W) WALKWAYS MOD-0A 200 KW WIND TURBINE GENERATOR
CF758887	1	A	1015F24	1	(NASA) ADJ. GENERATOR BOTTOM PLATE (W) BOTTOM PLATE-GENERATOR ADJUSTMENT MOD-0A 200 KW WTG
CF758888	1	A	1015F25	1	(NASA) ADJ. GEN. TOP & LOCK BAR (W) GENERATOR ADJUSTMENT DETAILS
CF758889	1	C	1015F26	1	(NASA) DETAILS (W) DETAILS MOD-0A 200 KW WIND TURBINE GENERATOR
CF758890	1	C	1015F27	1	(NASA) MAIN DRIVE SHAFT (W) MAIN DRIVE SHAFT MOD-0A 200 KW WIND TURBINE GENERATOR
C0758892	1	-	1015F28	1	(NASA) BRAKE SUPPORT (W) BRAKE SUPPORT MOD-0A 200 KW WIND TURBINE GENERATOR.
C0758895	1	-	1015F29	1	(NASA) PULLEY DRIVE SHAFT (W) PULLEY DRIVE SHAFT MOD-0A 200 KW WIND TURB. GENERATOR
CR758896	1	E	1015F30	2	(NASA) MAIN YAW BRG SUPPORT (W) MAIN YAW BRG SUPPORT MOD-0A 200 KW WIND TURBINE GEN.
CF758897	1	A	1015F31	1	(NASA) YAW DRIVE BRG HOUSING (W) YAW DRIVE BRG HOUSING MOD-0A 200 KW WIND TURBINE GEN.
CF758898	1	-	1015F32	1	(NASA) YAW DRIVE SHAFT (W) YAW DRIVE SHAFT MOD-0A 200 KW WIND TURBINE GENERATOR
CF758899	1	-	1015F33	1	(NASA) YAW BRG RETAINER & SEAL (W) YAW-BRG RETAINERS MOD-0 200 KW WIND TURBINE GENERATOR
C0758900	1	A	1015F34	1	(NASA) INTER. YAW DRIVE SHAFT (W) INTERMEDIATE YAW DRIVE SHAFT MOD-0A 200 KW WTG

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-OA 200 KW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

SA LEWIS ING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CD758901	1	B	1015F35	1	(NASA) YAW DRIVE MOUNTING (W) YAW DRIVE MOUNTING PLATE MOD-OA 200 KW WIND TUR. GEN.
CD758902	1	C	1015F36	1	(NASA) SHEAR KEY & THRUST BUTTOM (W) SHEAR KEY & THRUST BUTTOM MOD-OA 200 KW WIND TUR. GEN.
CD758903	1	B	1015F37	1	(NASA) MAIN SLIP RING SUPPORT HORIZ. (W) MAIN SLIP RING SUPPORT (HORIZ.) MOD-OA 200 KW WTG
CF758904	1	C	1015F38	2	(NASA) BREAK PRESS. SYST. (W) PIPING SCHEMATIC & PANEL LAYOUT BRAKE CHAMBER & & PRESSURIZING SYSTEM MOD-OA 200 KW WIND TURBINE GEN.
CD758905	1	-	1015F39	1	(NASA) LIFTING BOOM (W) LIFTING BOOM, U-BOLT & WIND SPEED & DIRECTIONAL MOUNT. BRACKET MOD-OA 200 KW WIND TURBINE GENERATOR
CD758906	1	-	1015F40	1	(NASA) HYD PACK SUPPORT BED (W) HYDRAULIC PACKAGE SUPPORT BED MOD-OA 200 KW WTG
CD758907	1	-	1015F39	1	(NASA) "U" BOLT - BOTTLE HOLD DOWN (W) LIFTING BOOM, U-BOLT & WIND SPEED & DIRECTIONAL MOUNT. BRACKET MOD-OA 200 KW WIND TURBINE GENERATOR
CD758908	1	A	1015F42	1	(NASA) HYD PACK FAN SHROUD (W) HYDRAULIC PACKAGE FAN SHROUD MOD-OA 200 KW WTG
CD758909	1	B	1015F41	1	(NASA) LIFTING BEAM & SLING ASSEMBLY (W) LIFTING BEAM & SLING ASSEMBLY MOD-OA 200 KW WTG
CF758910	1	B	1015F44	1	(NASA) DETAILS (W) HIGH SPEED BRADE DETAILS MOD-OA 200 KW WIND TURB. GEN.

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-0A 200 kW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

SA LEWIS ING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF758912	1	A	1015F45	1	(NASA) ROTARY COUPLING SUPPORT (W) DEUBLIN CPLG SUPPORT BRACKET MOD-0A 200 kW MTG
C0758913	1	B	1015F46	1	(NASA) LADDER (W) LADDER WELDED ASSEMBLY MOD-0A 200 kW MTG
C0758914	1	-	1015F47	1	(NASA) REAR PROP CONE SUPPORTS (W) REAR PROP CONE SUPPORT MOD-0A 200 kW MTG
C0758915	1	A	1015F48	1	(NASA) HYD SUPPLY CLAMP & SUPPORTS (W) HYDRAULIC SUPPLY CLAMP & SUPPORT MOD-0A 200 kW MTG
C0758916	1	C	1015F49	1	(NASA) CO AXIAL FLOW LINE ASSEMBLY (W) CO AXIAL FLOW LINE - ASSEMBLY & DETAIL MOD-0A 200 kW MTG
C0758919	1	A	1015F50	1	(NASA) SPINNER RAIN GUARD (W) SPINNER RAIN GUARD MOD-0A 200 kW MTG
CF758920	1	A	1015F51	1	(NASA) SLIP RING ANTI-ROTATION & BRKT. (W) SLIP RING ANTI-ROTATION SUPPORT & BRKT. MOD-0A 200 kW MTG
CF758921	1	A	1015F52	3	(NASA) HYDRAULIC PUMP PACKAGE ASSEMBLY (W) HYDRAULIC PUMP PACKAGE ASSY MOD-0A 200 kW MTG
CF758922	1	A	1015F52	3	(NASA) HYDRAULIC PUMP PACKAGE ASSEMBLY (W) HYDRAULIC PUMP PACKAGE ASSY MOD-0A 200 kW MTG
CF758923	1	-	1015F52	3	(NASA) HYDRAULIC PUMP PACKAGE ASSEMBLY (W) HYDRAULIC PUMP PACKAGE ASSY MOD-0A 200 kW MTG
CF758924	1	-	1015F53	2	(NASA) DETAILS (W) HYDRAULIC PUMP PACKAGED ASSY MOD-0A 200 kW MTG

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)

LIST OF DRAWINGS FOR THE MOD-OA 200 KW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

ASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF758925	1	-	1015F54	1	(NASA) DETAILS (W) HYDRAULIC PUMP DETAILS MOD-OA 200 KW WIND TURB. GEN.
OR758926	1	B	1015F55	4	(NASA) ACTUATOR ASSEMBLY (W) ACTUATOR ASSEMBLY MOD-OA 200 KW WIND TURB. GEN.
CF758927	1	A	1015F56	1	(NASA) DETAILS (W) ACTUATOR ASSY DETAILS MOD-OA 200 KW WIND TURB. GEN.
CF758928	1	A	1015F57	1	(NASA) DETAILS (W) ACTUATOR ASSY DETAILS MOD-OA 200 KW WIND TURB. GEN.
CF758929	1	B	1015F58	1	(NASA) HYDRAULIC SCHEMATIC DIAGRAM (W) CONTROL SCHEMATIC DIAGRAM MOD-OA 200 KW WTG
CF758929	7	-	1015F58	1	(NASA) OPERATIONAL REQUIREMENTS & PARTS LIST (W) CONTROL SCHEMATIC DIAGRAM MOD-OA 200 KW WTG
CF758930	1	B	1015F59	1	(NASA) INTERFACE-METAL BLADE TO PITCH CONTROL HUB (W) INTERFACE-BLADE TO HUB MOD-OA 200 KW WIND TURBINE GEN.
CC758931	1	A	1015F39	1	(NASA) WIND SPEED MOUNTING BRK'D (W) LIFTING BOOM, U-BOLT & WIND SPEED & DIRECTIONAL MOUNT- BRACKET MOD-OA 200 KW WIND TURBINE GENERATOR
CD758932	1	A	1015F61	1	(NASA) UPPER BRAKE SUPPORT (W) UPPER BRAKE SUPPORT MOD OA-200 KW WIND TURBINE GEN.
CD758933	1	-	1015F62	1	(NASA) TURNTABLE BEARING & GEAR ASSY. (W) TURNTABLE BRG. & GEAR ASSY MOD-OA 200 KW WTG

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

SA LEWIS ING NUMBER	NUMBER OF SHTS.	* REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CD758934	1	C	1015F63	1	(NASA) LIFTING BEAM (W) LIFTING BEAM DETAILS MOD-OA 200 kW WIND TURBINE GEN.
CF758936	1	A	1015F64	1	(NASA) EXTERIOR FINISH - FIBERGLASS HOUSING (W) EXTERIOR FINISH-FIBERGLAS HOUSING MOD-OA 200 kW MTG
CC758937	1	B	1015F65	1	(NASA) TRANSFORMER BRACKETS (W) TRANSFORMER ANTI-ROTATION BRACKET & BUTTRES RING RETAINER DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
CD758938	1	-	1015F66	1	(NASA) OUTPUT SHAFT CONFIGURATION FOR DOUBLE REDUCTION WORM GEAR UNIT (W) DOUBLE REDUCTION WORM GEAR UNIT YAW DRIVE MOD-OA 200 kW WIND TURBINE GENERATOR
CF758939	1	A	1015F67	1	(NASA) TOWER SLIP RING ANTI-ROTATION ASSEMBLY (W) TOWER SLIP RING ANTI-ROTATION ASSY MOD-OA 200 kW MTG
CC758945	1	A	1015F68	1	(NASA) BUTTRES RING (W) DETAIL MOD-OA 200 kW WIND TURBINE GENERATOR
CF758946	1	B	1015F69	1	(NASA) MOD OA WIND TURBINE GENERATOR SITE PLAN & GENERAL ASSY (W) SITE PLAN & GENERAL ASSY MOD-OA 200 kW WIND TURBINE GEN.
CF758948	1	B	1015F70	4	(NASA) STRUCTURAL-TOWER ELEVATION & DETAILS (W) TOWER ELEVATIONS, PLAN & DETAILS MOD-OA 200 kW MTG
CF758949	1	A	1015F90	4	(NASA) STRUCTURAL-TOWER PLANS & DETAILS (W) TOWER ELEVATIONS, PLAN & DETAILS MOD-OA 200 kW MTG

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

ASA LEWIS WING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF758950	1	A	1015F70	4	(NASA) STRUCTURAL-TOWER DETAILS (W) TOWER ELEVATIONS, PLAN & DETAILS MOD-OA 200 kW MTG
CF758952	1	-	1015F71	2	(NASA) STRUCTURAL-ASSEMBLY STAND PLAN & DETAILS (W) ASSY STAND PLAN & DETAILS MOD-OA 200 kW WIND TURB. GEN.
CD758957	1	B	1015F72	1	(NASA) SPEED INCREASER-DIMENSIONAL REQUIREMENTS (W) SPECIAL SPEED INCREASER MOD-OA 200 kW WIND TURBINE GEN.
CF758968	1	C	1016F01	4	(NASA) ELECTRICAL-INSTRUMENTATION SENSOR WIRING LIST (W) INSTRUMENTATION SENSOR WIRING LIST MOD-OA 200 kW MTG
CF758969	1	E	1016F01	4	(NASA) ELECTRICAL-INSTRUMENTATION SENSOR WIRING LIST (W) INSTRUMENTATION SENSOR WIRING LIST MOD-OA 200 kW MTG
CF758970	1	C	1016F01	4	(NASA) ELECTRICAL-INSTRUMENTATION SENSOR WIRING LIST (W) INSTRUMENTATION SENSOR WIRING LIST MOD-OA 200 kW MTG
CF758971	1	E	1015F02	1	(NASA) ELECTRICAL-POWER ONE LINE CONNECTION DIAGRAM & SCHEDULE OF DMG. (W) POWER ONE LINE CONNECTION DIAGRAM SCHEDULE OF DMG'S MOD-OA 200 kW WIND TURBINE GENERATOR
CC758972	1	A	1015F73	1	(NASA) GEAR BOX SLIP RING ASSEMBLY (W) GEAR BOX SLIP RING ASSY-ELECTRICAL MOD-OA 200 kW MTG
CF758973	1	A	1015F74 1015F79	1	(NASA) TOWER SLIP RING ASSY-ELECTRICAL (W) TOWER SLIP RING ASSY (ELEC) MOD-OA 200 kW MTG

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TABLE 2 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

ASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF758974	1	B	1015F75 1015F79	1	(NASA) TOWER SLIP RING ASSY-ELECTRICAL (W) TOWER SLIP RING ASSY MOD-OA 200 kW WIND TURBINE GEN.
CR758975	1	A	1015F43	3	(NASA) SENSOR LOCATION (PLAN VIEW) (W) SENSOR LOCATION & CONDUIT ROUTING MOD-OA 200 kW WTG
CR758976	1	C	1015F43	3	(NASA) SENSOR LOCATION (ELEVATION VIEW) (W) ELECTRICAL SENSOR LOCATIONS MOD-OA 200 kW WTG
CF758977	1	C	1016F03	1	(NASA) ELECTRICAL-AUXILIARY ELECTRONIC PACKAGE CONNECTION & INTERCONNECTION DIAGRAM (W) AUXILIARY ELECTRONIC PACKAGE CONNECTION & INTERCONNECTION DIAGRAM MOD-OA 200 kW WIND TURBINE
CF758978	1	D	1016F04	2	(NASA) ELECTRICAL-SENSOR IDENTIFICATION LIST (CLAYTON) (W) SENSOR IDENTIFICATION LIST MOD-OA 200 kW WTG
CF758979	1	F	1016F05	1	(NASA) ELECTRICAL-CABLE INTERCONNECTION (W) ELECTRICAL-CABLE INTERCONNECTION MOD-OA 200 kW WTG
CF758980	1	-	1016F06	1	(NASA) ELECTRICAL-INSTRUMENTATION INTERCONNECTION DIAGRAM PHASE I TEST (W) INSTRUMENTATION INTERCONNECTION DIAGRAM LERC-ERB CW 22 PHASE I TEST MOD-OA 200 kW WIND TURBINE
CF758981	1	B	1015F76	2	(NASA) ELECTRICAL-EQUIPMENT LAYOUT, LIGHTING, GROUNDING & DETA (W) ELECTRICAL-EQUIPMENT LAYOUT, LIGHTING, GROUNDING DETAILS MOD-OA 200 kW WTG
CF758982	1	B	1015F77	2	(NASA) ELECTRICAL-POWER CONTROL & INSTRUMENTATION TERMINAL BOXES & DETAILS (W) ELECTRICAL-POWER CONTROL & INSTRUMENTATION TERMINAL BOXES MOD-OA 200 kW WTG

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

ASA LEWIS WING NUMBER	NUMBER OF SHTS.	* REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF758983	1	C	1016F07	1	(NASA) ELECTRICAL-GEAR BOX SLIP RING CONNECTION DIAGRAM (W) GEAR BOX SLIP RING CONNECTION DIAGRAM MOD-OA 200 kW WTG
CF758984	1	G	1016F08	1	(NASA) ELECTRICAL-TOWER SLIP RING CONNECTION DIAGRAM (W) TOWER SLIP RING CONNECTION DIAGRAM MOD-OA 200 kW WTG
CF758985	1	A	1016F09	1	(NASA) ELECTRICAL-STATIC SHAFT TEST INTERCONNECTION DIAGRAM PHASE I TEST (W) STATIC SHAFT TEST INTERCONNECTION DIAGRAM LERC-ERB CW 22 PHASE I TEST MOD-OA 200 kW WIND TURBINE GENERATOR
CD758999	1	-	1015F78	1	(NASA) INTERMEDIATE SHAFT (W) HIGH SPEED SHAFT ASSEMBLY MOD-OA 200 kW WIND TURB. GEN.
CC759000	1	A	1015F93	1	(NASA) FLUID COUPLER ADAPTER (W) DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
CF759019	1	G	1015F80	3	(NASA) HYDRAULIC SCHEMATIC YAW BRAKE (W) YAW BRAKE HYDRAULIC SYSTEM PANEL & SCHEMATIC MOD-OA 200 kW WIND TURBINE GENERATOR
CC759020	1	-	1015F81	1	(NASA) SPACERS YAW COUPLINGS (W) DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
CF759021	1	-	1015F82	1	(NASA) PULLEY BEARING SUPPORT (W) PULLEY BEARING SUPPORT MOD-OA 200 kW WIND TURB. GEN.
CD759023	1	A	1015F83	1	(NASA) DETAILS FOR HYDRAULIC ACTUATOR (W) DETAILS FOR HYDRAULIC ACTUATOR MOD-OA 200 kW WTG
CF759024	1	A	1015F84	1	(NASA) DETAILS FOR PUMP PACKAGE (W) PUMP PACKAGE DETAILS MOD-OA 200 kW WIND TURBINE GEN.

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

ASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF759025	1	C	1016F10	1	(NASA) ELECTRICAL-TOWER SENSOR LOCATION PLAN, DETAILS, PIN LAYOUT & ELECTRICAL CONNECTION DIAGRAM (W) TOWER SENSOR LOCATION PLAN DETAILS, PIN LAYOUT & ELECTRICAL CONNECTION DIAG. MOD-OA 200 kW WTG
CF759026	1	E	1016F11	2	(NASA) ELECTRICAL SAFETY SHUTDOWN-ELEMENTARY DIAGRAM (W) ELECTRICAL SAFETY SHUTDOWN-ELEMENTARY DIAGRAM MOD-OA 200 kW WIND TURBINE GENERATOR
CF759027	1	F	1016F12	2	(NASA) ELECTRICAL-CONTROL ELEMENTARY DIAGRAM (W) CONTROL ELEMENTARY DIAGRAM MOD-OA 200 kW WTG
CF759028	1	D	1016F13	1	(NASA) ELECTRICAL-YAW CONTROLLER CONNECTION DIAGRAM (W) YAW CONTROLLER CONNECTION DIAGRAM MOD-OA 200 kW WTG
CF759029	1	A	1016F14	1	(NASA) ELECTRICAL-MICROPROCESSOR FLOW DIAGRAM (W) MICROPROCESSOR FLOW DIAGRAM MOD-OA 200 kW WTG
CF759030	1	C	1016F15	1	(NASA) ELECTRICAL-CONNECTION DIAGRAM FOR PITCH CONTROLLER (W) ELECTRICAL CONNECTION DIAGRAM PITCH CONTROLLER MOD-OA 200 kW WIND TURBINE GENERATOR
CF759031	1	E	1016F16	1	(NASA) ELECTRICAL-MICROPROCESSOR BLOCK DIAGRAM (W) MICROPROCESSOR BLOCK DIAGRAM MOD-OA 200 kW WTG
CF759032	1	E	1016F17	1	(NASA) ELECTRICAL-SUPERVISORY CONTROLLER INTERCONNECTION CENTRAL & REMOTE (W) SUPERVISORY CONTROLLER INTERCONNECT CENTRAL & REMOTES STATIONS & DETAIL "A" MOD-OA 200 kW WIND TURBINE GENERATOR
CF759033	1	E	1016F18	2	(NASA) ELECTRICAL-PITCH CONTROLLER SCHEMATIC (W) PITCH CONTROLLER SCHEMATIC MOD-OA 200 kW WTG

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)

LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF759034	1	F	1016F19	2	(NASA) ELECTRICAL-CONTROL PANEL LAYOUTS & RELAY PANEL CONNECTION DIAGRAMS (W) CONTROL PANEL LAYOUTS & RELAY PANEL CONNECTION DIAGRAMS MOD-OA 200 kW WIND TURBINE GENERATOR
CF759035	1	C	1016F20	7	(NASA) ELECTRICAL-480 V SWITCHGEAR ONE LINE DIAGRAM (W) 480 V SWITCHGEAR WIRING DIAGRAM UNIT NOS. 1, 2 & 3 MOD-OA 200 kW WIND TURBINE GENERATOR
CF759036	1	E	1016F20	7	(W) 480 V SWITCHGEAR WIRING DIAGRAM UNIT NOS. 1, 2 & 3 MOD-OA 200 kW WIND TURBINE GENERATOR
CF759037	1	F	1016F20	7	(W) 480 V SWITCHGEAR WIRING DIAGRAM UNIT NOS. 1, 2, & 3 MOD-OA 200 kW WIND TURBINE GENERATOR
CF759038	1	E	1016F20	7	(W) 480 V SWITCHGEAR WIRING DIAGRAM UNIT NOS. 1, 2, & 3 MOD-OA 200 kW WIND TURBINE GENERATOR

All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	PEV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF759039	1	F	1016F20	7	(W) 480 V SWITCHGEAR WIRING DIAGRAM UNIT NOS. 1, 2, & 3 MOD-OA 200 kW WIND TURBINE GENERATOR
CF759040	1	D	1016F21	3	(NASA) ELECTRICAL-CONNECTION DGM FOR TERMINAL BOXES 28 & 38 (W) CONNECTION DIAGRAMS FOR TERMINAL BOXES, 28, 38, 2A, 3A & NO. 4 MOD-OA 200 kW WIND TURBINE GENERATOR
CF759041	1	E	1016F21	3	(NASA) ELECTRICAL-CONNECTION DGM FOR TERMINAL BOXES 2A & 28 (W) CONNECTION DIAGRAMS FOR TERMINAL BOXES, 28, 38, 2A, 3A & NO. 4 MOD-OA 200 kW WIND TURBINE GENERATOR
CF759042	1	D	1016F21	3	(NASA) ELECTRICAL-CONNECTION DIAGRAM FOR TERMINAL BOXES NO. 4 (W) CONNECTION DIAGRAMS FOR TERMINAL BOXES, 28, 38, 2A, 3A & NO. 4 MOD-OA 200 kW WIND TURBINE GENERATOR
CF759043	1	F	1016F22	1	(NASA) ELECTRICAL-ELECTRICAL CONNECTION DIAGRAM SAFETY SHUTDOWN PANEL (W) ELECTRICAL CONNECTION DIAGRAM SAFETY SHUTDOWN PANEL MOD-OA 200 kW WIND TURBINE GENERATOR
CF759044	1	E	1016F23	1	(NASA) ELECTRICAL-YAW BRAKE ELEMENTARY & CONNECTION DIAGRAM (W) YAW BRAKE ELEMENTARY & CONNECTION DGM. MOD-OA 200 kW WTG
CF759045	1	C	1016F24	1	(NASA) ELECTRICAL-MICROPROCESSOR CIRCUIT CARD LOCATOR RACK A & RACK B (W) MICROPROCESSOR CIRCUIT CARD LOCATION, RACK A & RACK B MOD-OA 200 kW WIND TURBINE GENERATOR

All Westinghouse Drawings are Revision -

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Table 2 (Cont'd)

LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR

CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF759047	1	D	1016F25	1	(NASA) ELECTRICAL-YAW CONTROL PANEL LAYOUT (W) YAW CONTROL PANEL LAYOUT MOD-OA 200 kW WTG
CF759048	1	D	1016F26	1	(NASA) ELECTRICAL-CONTROL RACK ANALOG TERMINAL STRIP INTERCONNECTION (W) CONTROL RACK ANALOG TERMINAL STRIP INTERCONNECTION MOD-OA 200 kW WIND TURBINE GENERATOR
CF759049	1	E	1016F27	1	(NASA) ELECTRICAL-ELECTRICAL CONNECTION DIAGRAM AMPLIFIER PANEL (W) ELECTRICAL CONNECTION DIAGRAM AMPLIFIER PANEL MOD-OA 200 kW WIND TURBINE GENERATOR
CF760271	1	A	1015F85	2	(NASA) STRUCTURAL-ASSY STAND PLAN & DETAILS (W) ASSY STAND PLAN & DETAILS MOD-OA 200 kW WIND TURB. GEN.
CF760300	1	-	1015F86	2	(NASA) STRUCTURAL-TOWER & ASSY STAND-FOUNDATIONS & DETAILS- CLAYTON M.M. (W) TOWER & ASSY STAND FOUNDATION & DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
CC760476	1	-	1015F87	1	(NASA) GREASE & PRESSURE FITTINGS (W) GREASE & PRESSURE FITTINGS MOD-OA 200 kW WTG
CD760477	1	-	1015F88	1	(NASA) HUB COUNTER WEIGHTS (W) HUB COUNTER WEIGHTS MOD-OA 200 kW WIND TURBINE GEN.
CF760478	1	-	1015F89	1	(NASA) DETAILS (W) DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
CF760480	3	-	1016F28	4	(NASA) ELECTRICAL-INTRUSION ALARM (W) INTRUSION ALARM SYSTEM ALARM SYSTEM & ELEC. ELEMENTARY CONNECTION DIAGRAM & INSTALLATION DETAIL MOD-OA 200 kW WTG
CD760481	1	B	1016F30	1	(NASA) ELECTRICAL-MICROPROCESSOR TIMER-CARD SCHEMATIC (W) MICROPROCESSOR TIMER CARD-SCHEMATIC MOD-OA 200 kW WTG

*All Westinghouse Drawings are Revision -

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Table 2 (Cont'd)

LIST OF DRAWINGS FOR THE MOD-OA 200 KW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	*REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CD760482	1	B	1016F30	1	(NASA) ELECTRICAL-MICROPROCESSOR RELAY-CARD SCHEMATIC (W) MICROPROCESSOR RELAY CARD SCHEMATIC MOD-OA 200 KW MTG
CF760484	1	A	1015F90	1	(NASA) HYDRAULIC SYSTEM PANEL YAW BRAKE (W) HYDRAULICS COMPONENTS MTG PANEL MOD-OA 200 KW MTG
CF760484	1	A	1015F91	1	(NASA) HYDRAULIC SYSTEM PANEL YAW BRAKE (W) HYDRAULIC SYSTEM PANEL YAW BRAKE-STRUCTURAL SUPPORT MOD-OA 200 KW WIND TURBINE GENERATOR
CF760485	1	A	1015F80	3	(NASA) HYDRAULIC SYSTEM PANEL YAW BRAKE (W) YAW BRAKE HYDRAULIC SYSTEM PANEL & SCHEMATIC MOD-OA 200 KW WIND TURBINE GENERATOR
CD760486	1	A	1015F92	1	(NASA) AIR BOTTLE GAGE BRACKET (W) AIR BOTTLE GAGE BRACKET DETAILS MOD-OA 200 KW MTG
CC760487	1	A	1015F93	1	(NASA) GEAR ALT. LOW SPEED SHAFT (W) DETAILS MOD-OA 200 KW WIND TURBINE GENERATOR
CC760488	1	A	1015F94	1	(NASA) DUBLIN MOUNT (W) DUBLIN MOUNT & SLIP RING DUST COVER MOD-OA 200 KW MTG
CB760490	1	A	1015F65	1	(NASA) BUTTRES RING RETAINER (W) TRANSFORMER ANTI-ROTATION BRACKET & BUTTRES RING RETAINER DETAILS MOD-OA 200 KW MTG
CF760491	1	-	1015F96	1	(NASA) YAW BRAKE ASSEMBLY (W) YAW BRAKE ASSY MOD-OA 200 KW WIND TURBINE GENERATOR
CD760492	1	-	1015F97	1	(NASA) YAW BRAKE DETAILS (W) YAW BRAKE DETAIL MOD-OA 200 KW WIND TURBINE GENERATOR
CD760493	1	-	1015F98	1	(NASA) YAW BRAKE DETAILS (W) YAW BRAKE DETAIL MOD-OA 200 KW WIND TURBINE GENERATOR

*All Westinghouse Drawings are Revision -

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Table 2 (Cont'd)

LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR

CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	*REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF760494	1	B	1016F31	1	(NASA) ELECTRICAL-ELAPSE THE PANEL (W) ELAPSE TIME PANEL MOD-OA 200 kW WIND TURBINE GENERATOR
CF760495	1	C	1016F32	1	(NASA) ELECTRICAL-RECLOSER & CIRCUIT BREAKER NO. 2 ELEMENTARY & WIRING DIAGRAMS (W) RECLOSER & CIRCUIT BREAKER NO. 2 ELEMENTARY & WIRING DIAGRAMS MOD-OA 200 kW WIND TURBINE GENERATOR
CF760496	1	D	1016F33	1	(NASA) ELECTRICAL-CLIMATRONICS & REFERENCE PANEL CONNECTION DIAGRAM (W) ELECTRICAL CONNECTION DIAGRAM CLIMATRONICS & REFERENCE PANEL MOD-OA 200 kW WIND TURBINE GENERATOR
CF760497	1	B	1016F34	1	(NASA) ELECTRICAL-PITCH CONTROLLER INTERNAL TERMINATIONS (W) PITCH CONTROLLER INTERNAL TERMINATIONS MOD-OA 200 WTG
CC760500	1	-	1015F94	1	(NASA) SLIP RING COVER (W) DUBLIN MOUNT & SLIP RING DUST COVER MOD-OA 200 kW WTG
CC760504	1	B	1015F81	1	(NASA) HUB SEAL HOLDER (W) DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
CF760506	1	-	1015F95	2	(NASA) ELECTRICAL-LOW SPEED SHAFT STRAIN GAGE LOCATION CONNECTION DIAGRAM & INSTALLATION (W) ELECTRICAL-LOW SPEED SHAFT STRAIN GAGE LOCATION MOD-OA 200 kW WIND TURBINE GENERATOR
CC760512	1	-	1015F99	1	(NASA) FIXTURE FOR SEAL INSTALLATION (W) FIXTURES FOR SEAL INSTALLATION MOD-OA 200 kW WTG

All Westinghouse Drawings are Revision -

Sheet 16

Table 2 (Cont'd.)

LIST OF DRAWINGS FOR THE MOD-0A 200 KW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	*REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CD760513	1	-	1015F99	1	(NASA) SEAL INSTALLATION INSTRUCTIONS (W) FIXTURES FOR SEAL INSTALLATION MOD-0A 200 KW WTG
CF760520	1	-	1015F95	2	(NASA) ELECTRICAL-LOW SPEED SHAFT STRAIN GAGE LOCATION (W) ELECTRICAL-LOW SPEED SHAFT STRAIN GAGE LOCATION MOD-0A 200 KW WIND TURBINE GENERATOR
CF760546	1	-	1016F35	1	(NASA) ELECTRICAL-SYNCHRO-D.C. CONVERTER-AEROVANE TRANSLATER SCHEMATIC (W) SYNCHRO-D.C. CONVERTER AEROVANE TRANSLATOR SCHEMATIC MOD-0A 200 KW WIND TURBINE GENERATOR
CF760552	1	-	1016F36	1	(NASA) DAYTRONICS CONNECTION DIAGRAM-ELECTRICAL (W) DAYTRONICS CONNECTION DIAGRAM MOD-0A 200 KW WTG

*All Westinghouse Drawings are Revision -

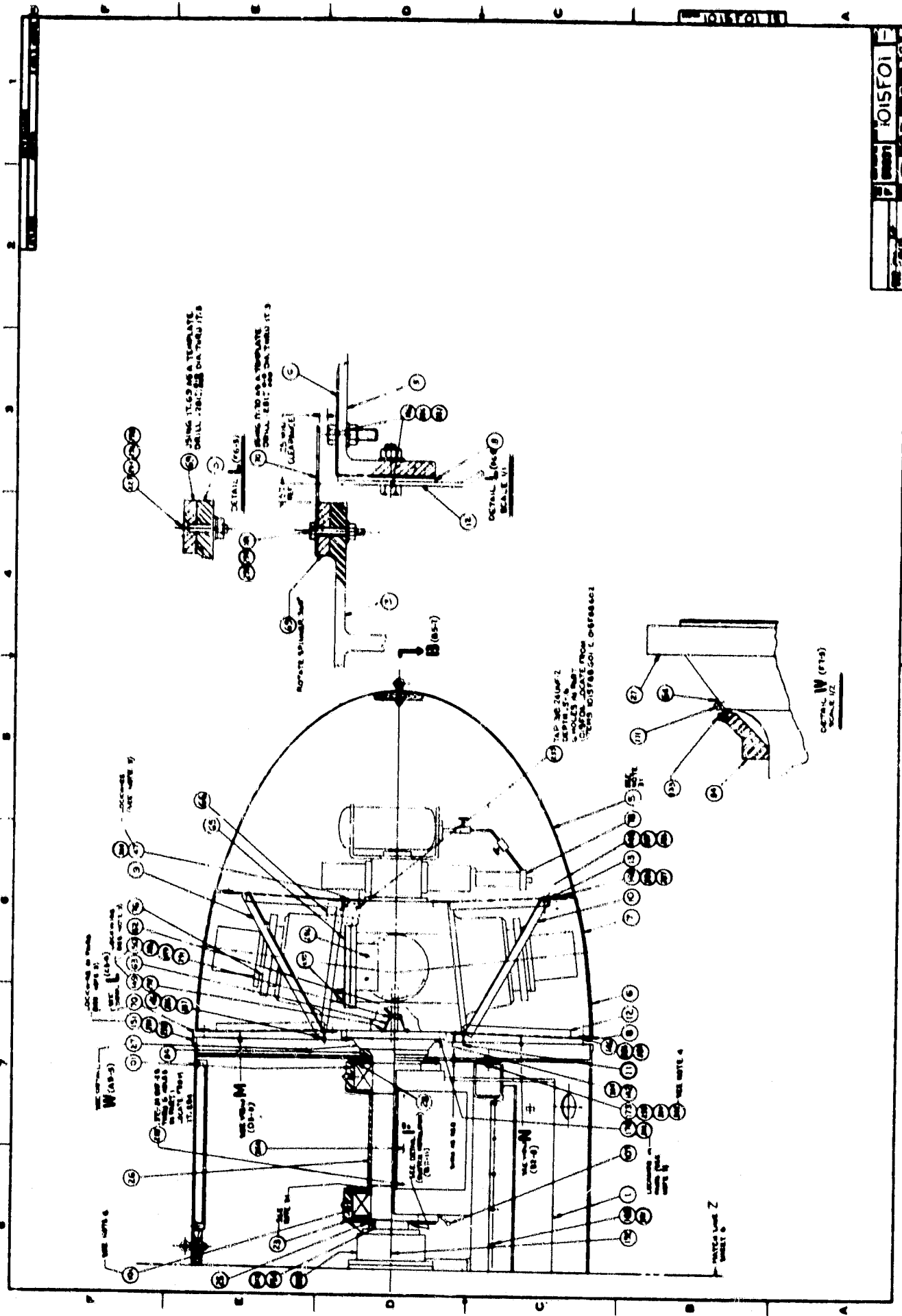
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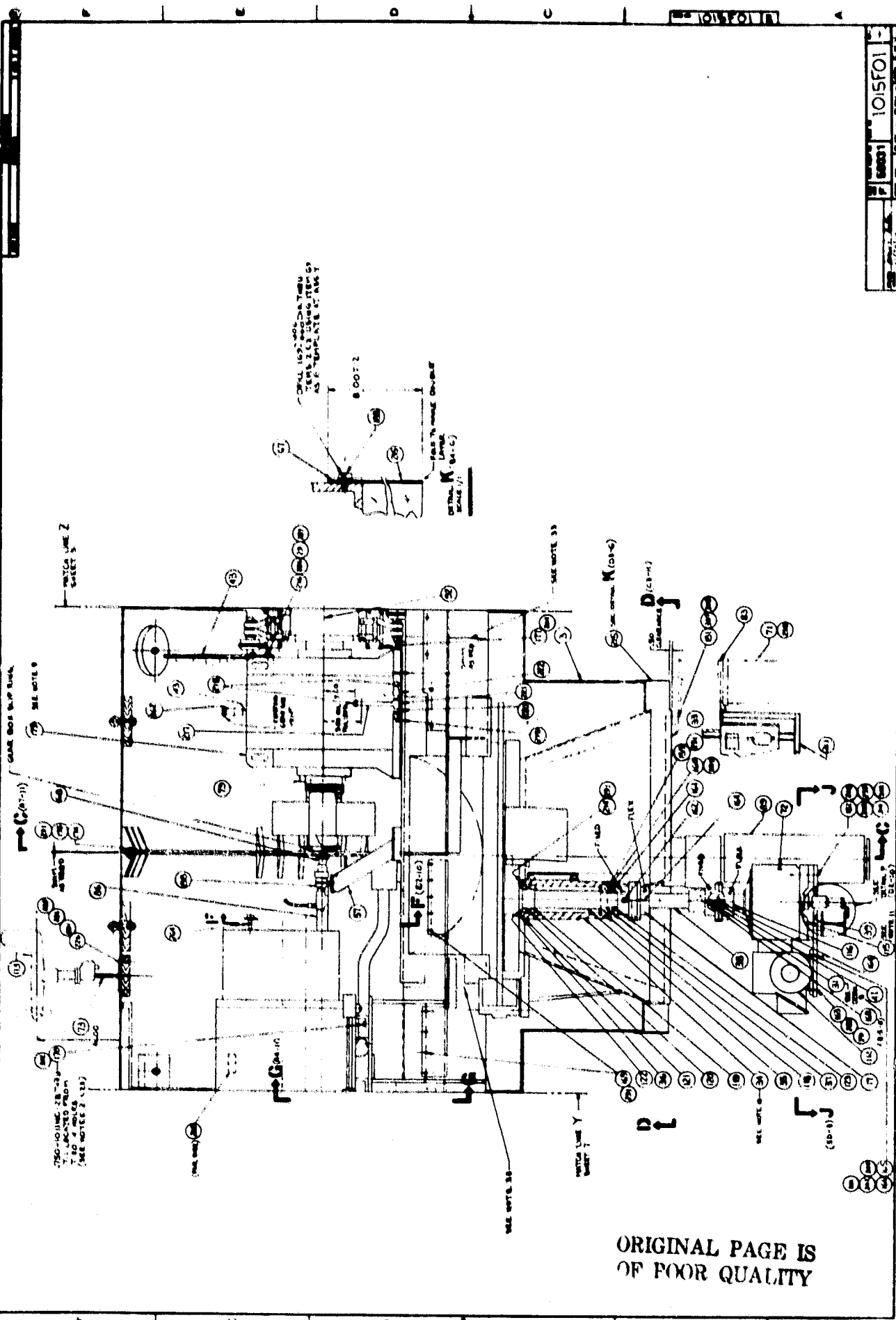
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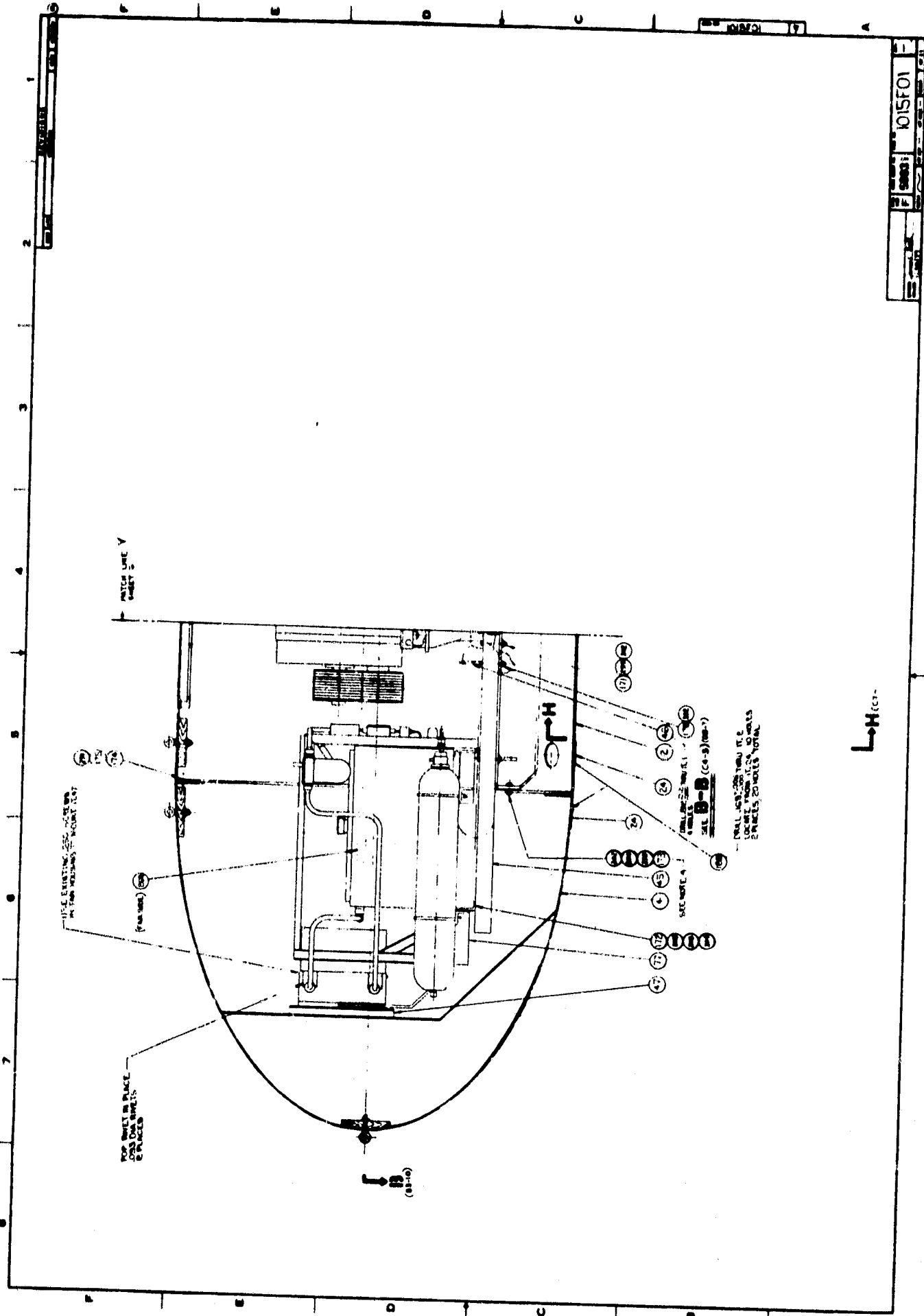
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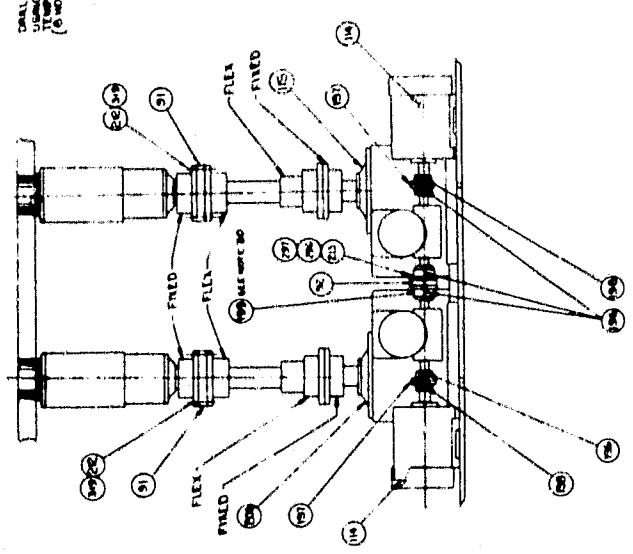


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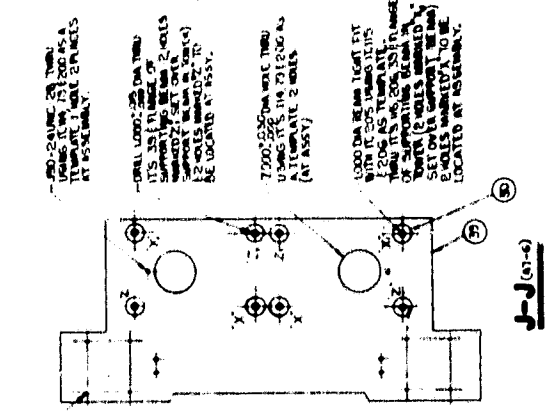


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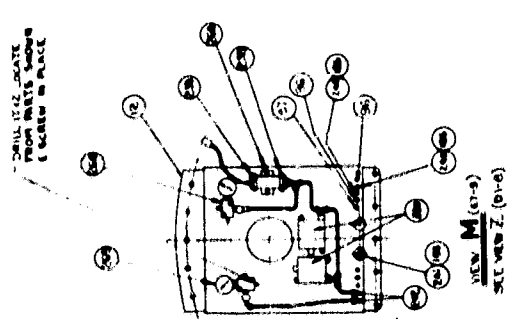
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H-H (15-7)

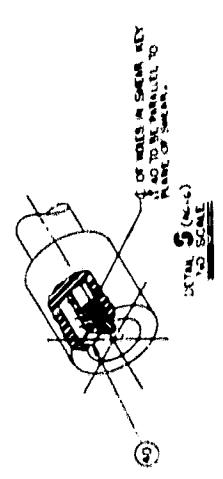


J-J (17-6)

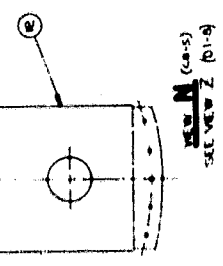


M (17-9)
SEE VIEW Z (11-6)

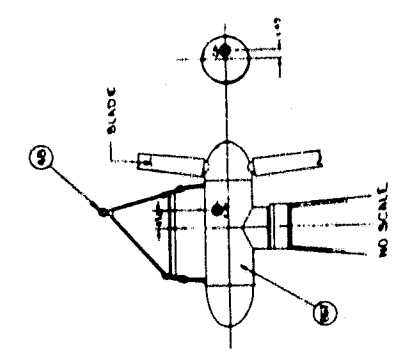
VIEW Z (11-6)
HUB LUBRICATION SYSTEM



VIEW 5 (14-6)
NO SCALE

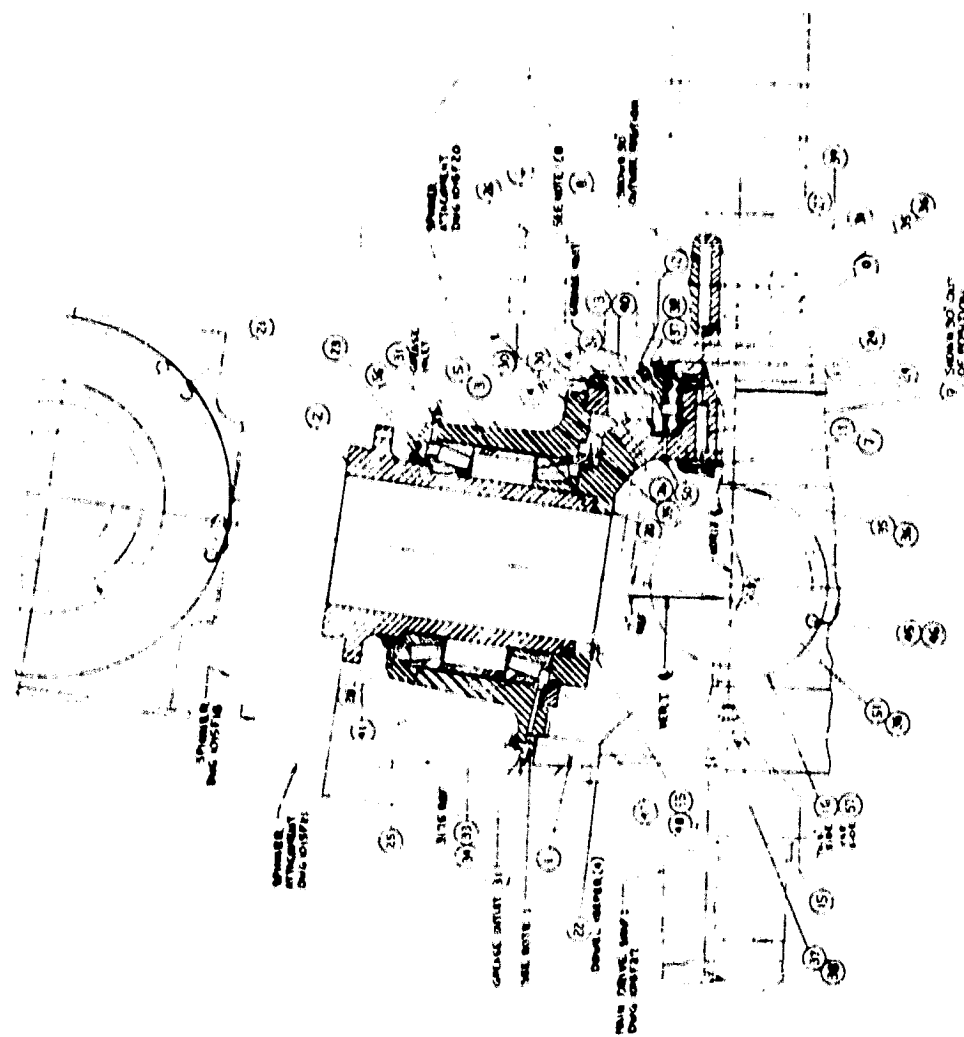


VIEW N (14-5)
SEE VIEW Z (11-6)



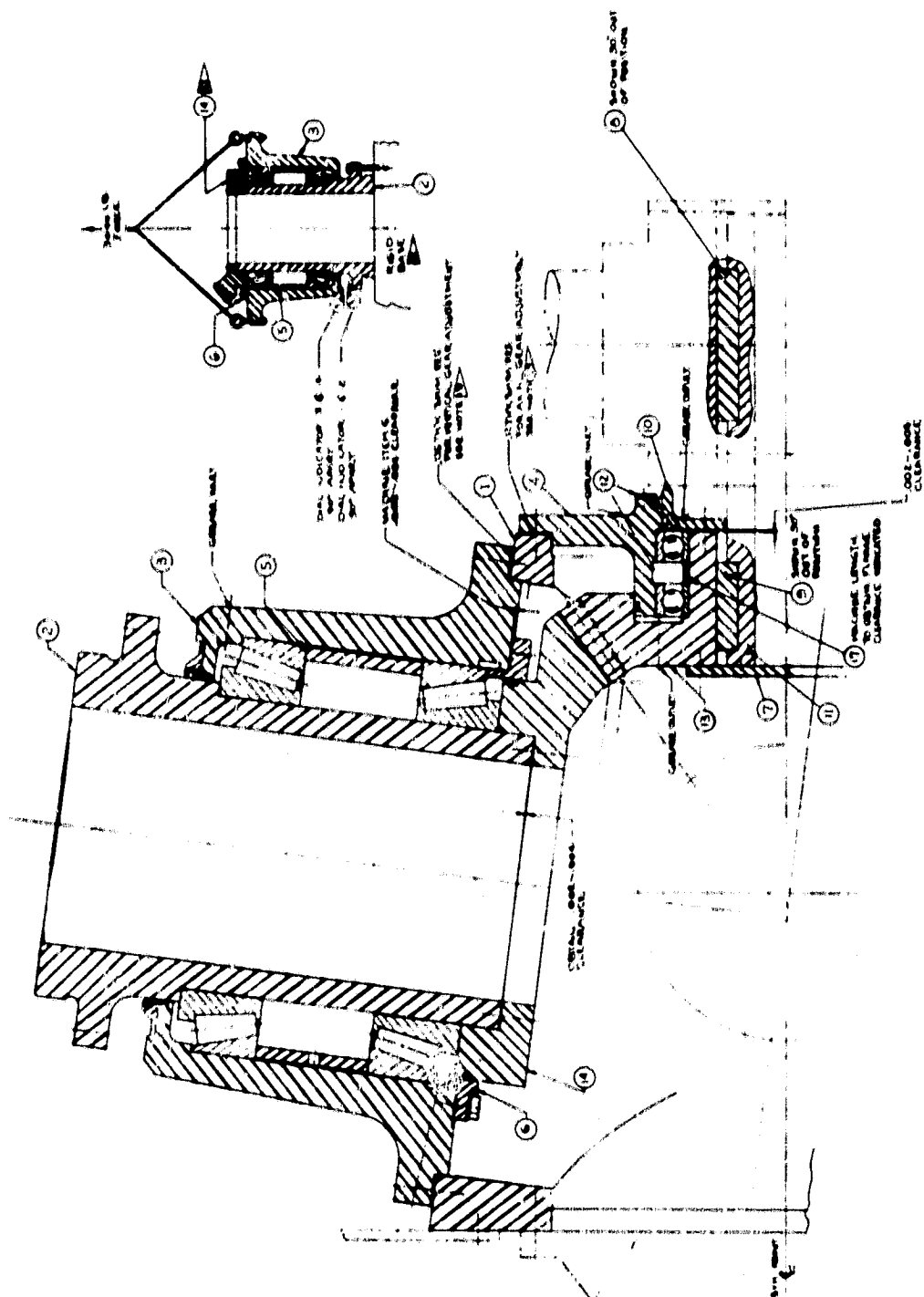
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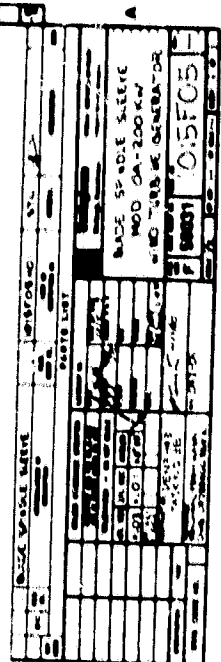


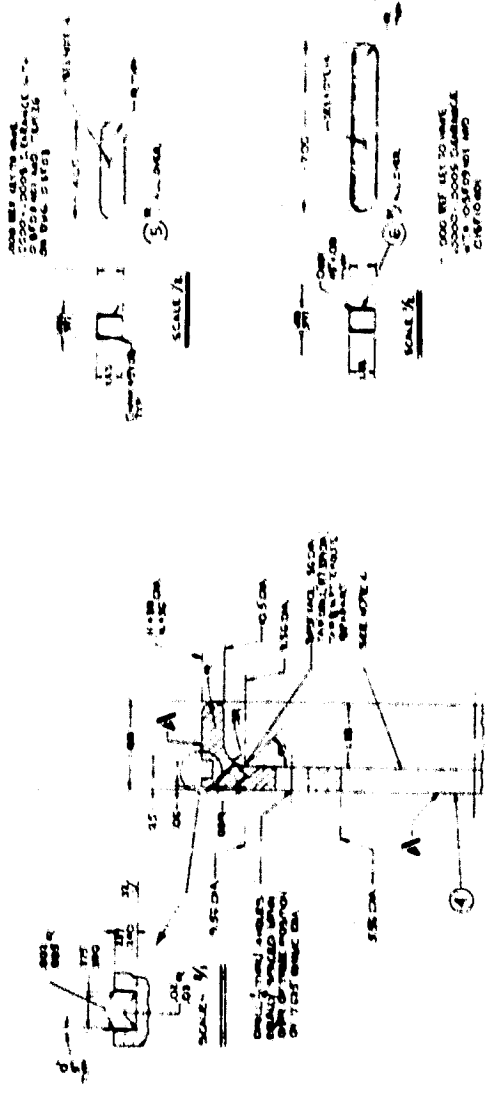
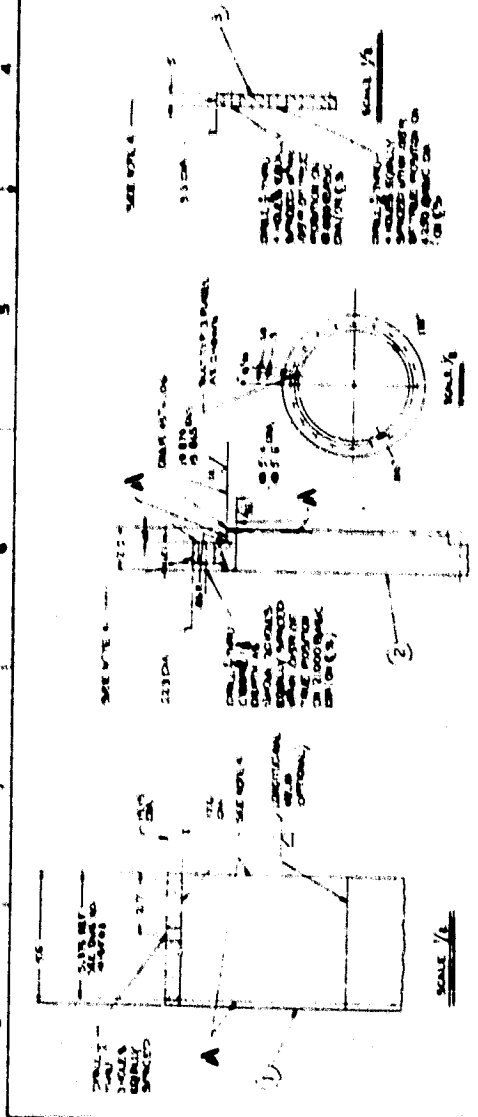


VIEW A-A (see 2)

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1. The first of these is the fact that the Government has not been able to secure the necessary funds to carry out its programme. This is due to the fact that the Government has not been able to secure the necessary funds to carry out its programme.

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3. The third of these is the fact that the Government has not been able to secure the necessary funds to carry out its programme. This is due to the fact that the Government has not been able to secure the necessary funds to carry out its programme.

4. The fourth of these is the fact that the Government has not been able to secure the necessary funds to carry out its programme. This is due to the fact that the Government has not been able to secure the necessary funds to carry out its programme.

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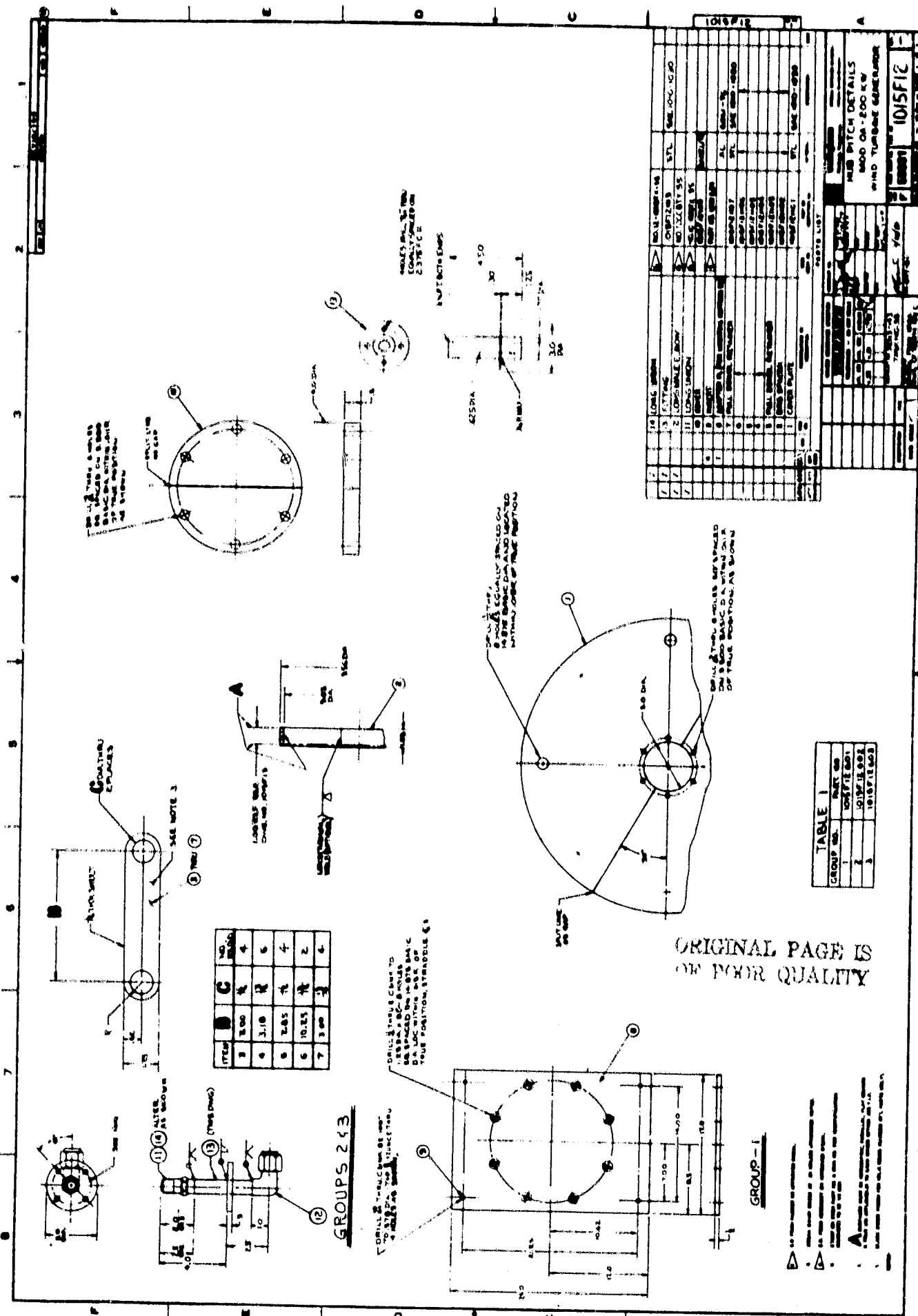
6. The sixth of these is the fact that the Government has not been able to secure the necessary funds to carry out its programme. This is due to the fact that the Government has not been able to secure the necessary funds to carry out its programme.

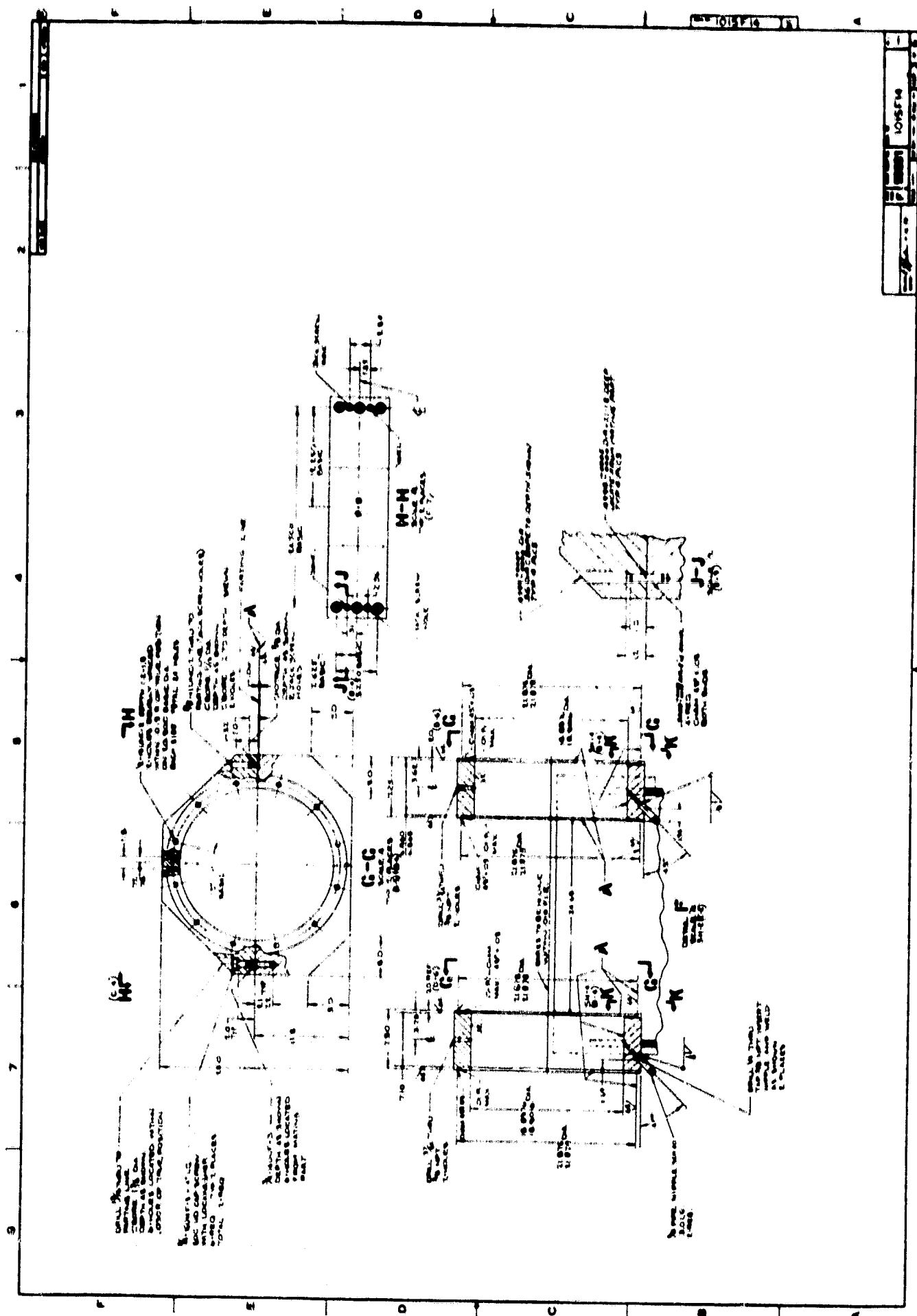
7. The seventh of these is the fact that the Government has not been able to secure the necessary funds to carry out its programme. This is due to the fact that the Government has not been able to secure the necessary funds to carry out its programme.

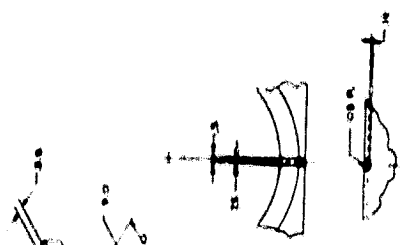
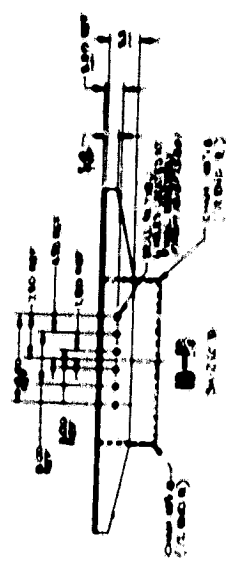
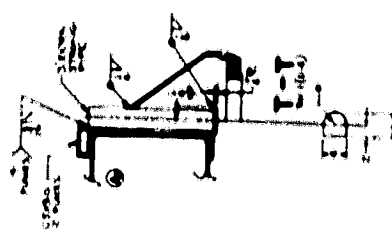
8. The eighth of these is the fact that the Government has not been able to secure the necessary funds to carry out its programme. This is due to the fact that the Government has not been able to secure the necessary funds to carry out its programme.

9. The ninth of these is the fact that the Government has not been able to secure the necessary funds to carry out its programme. This is due to the fact that the Government has not been able to secure the necessary funds to carry out its programme.

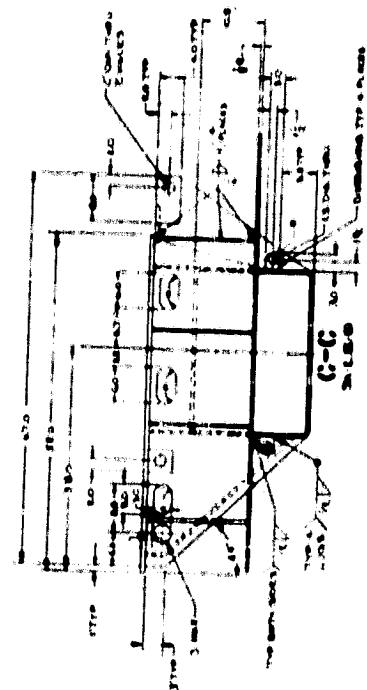
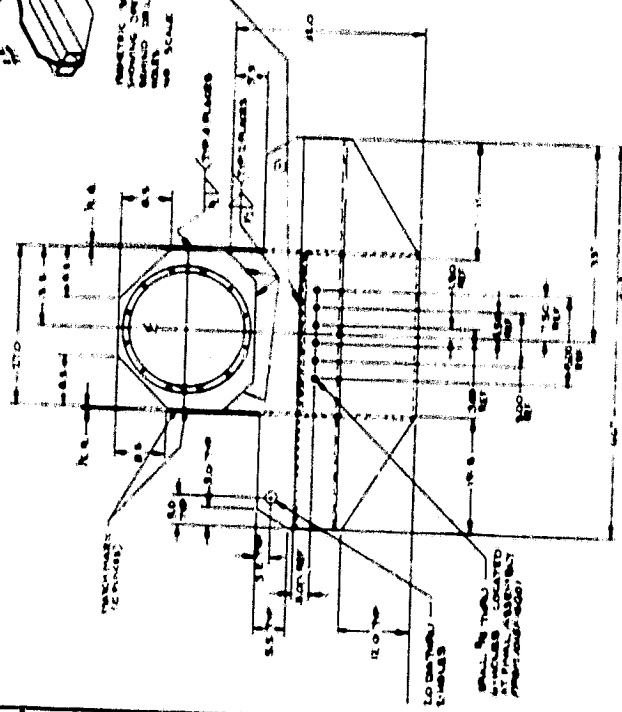
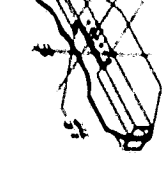
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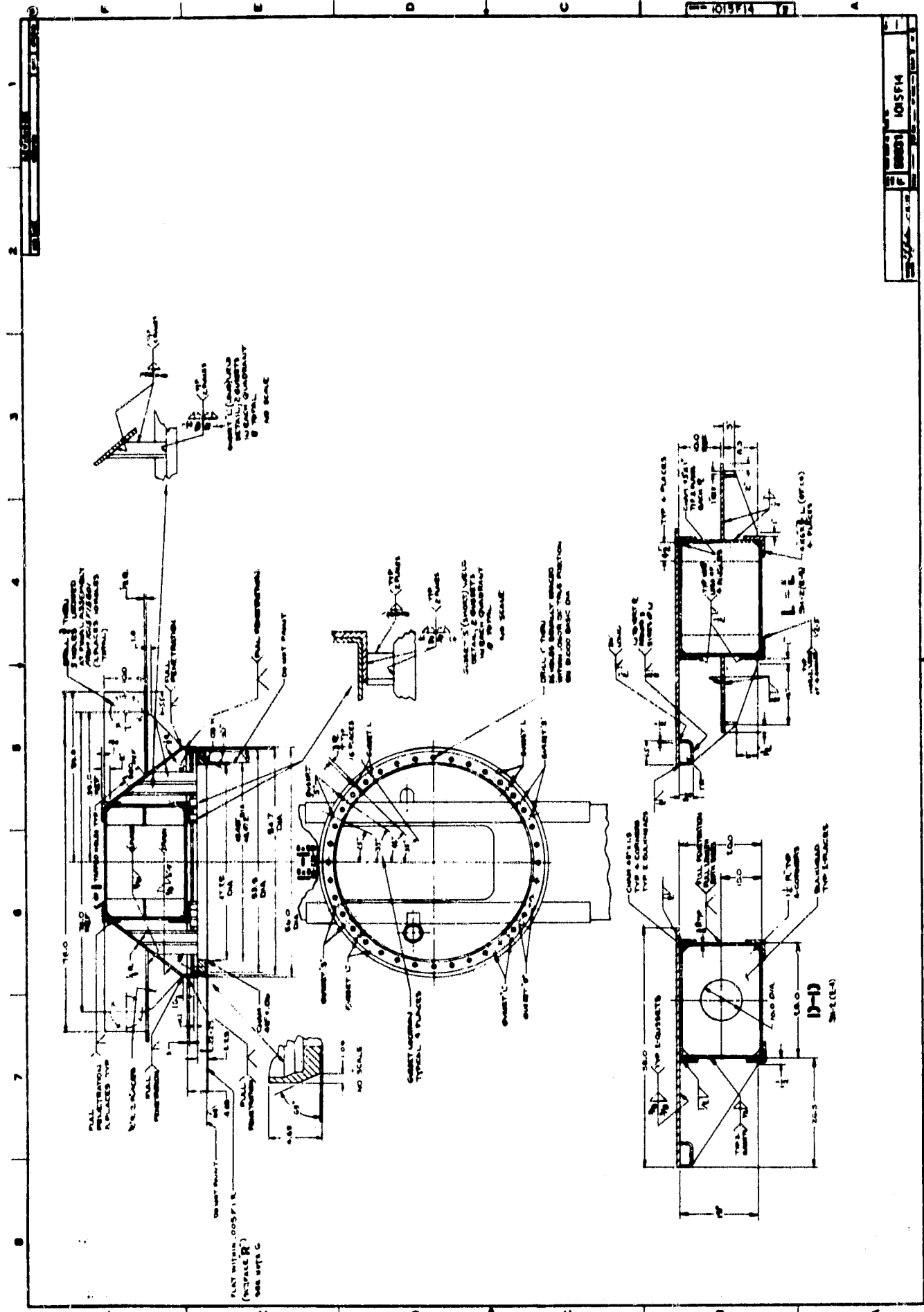


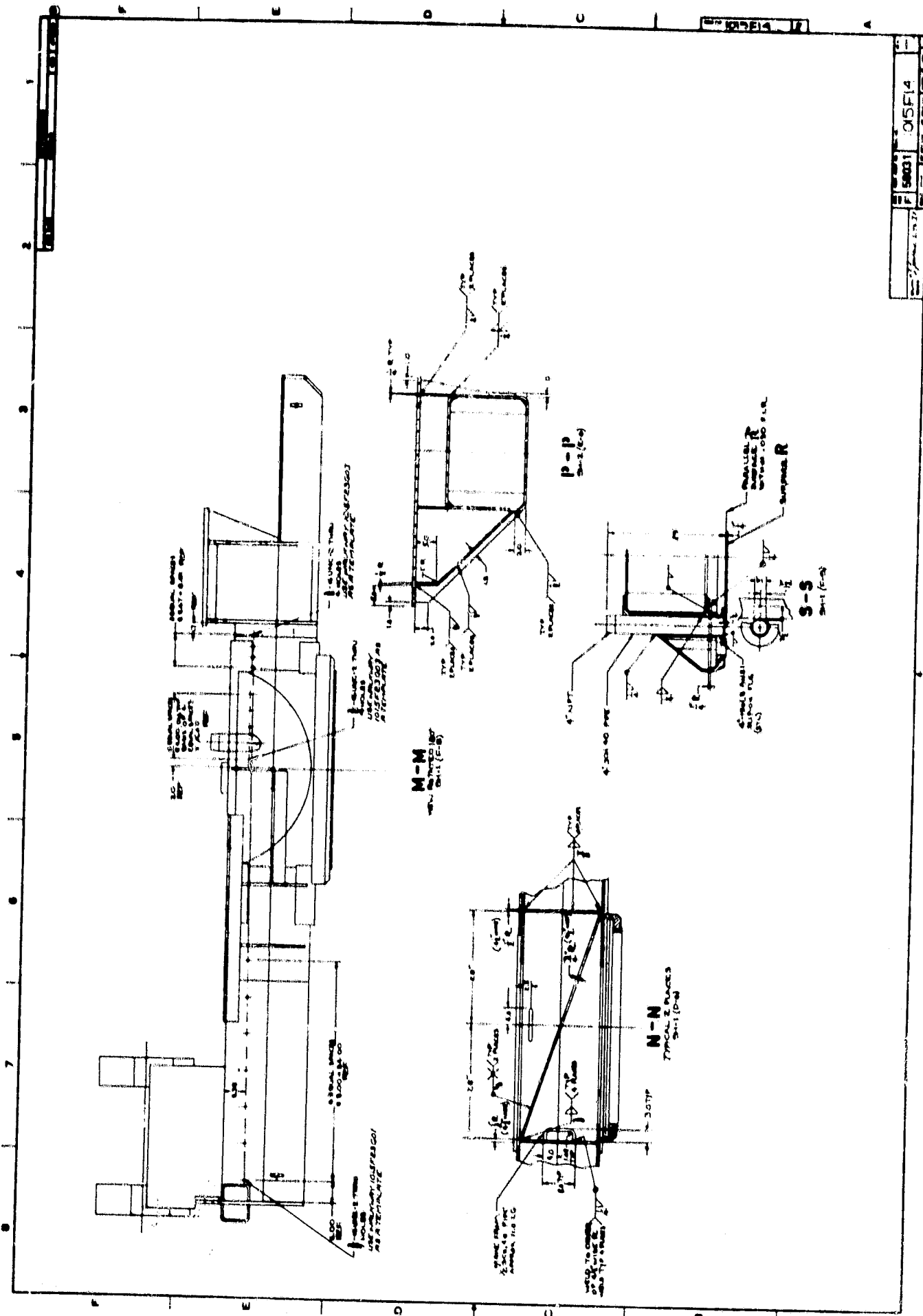


R-K
SCALE 1/4"
TYPICAL 1 PLATE



VIEW 1
SECTION





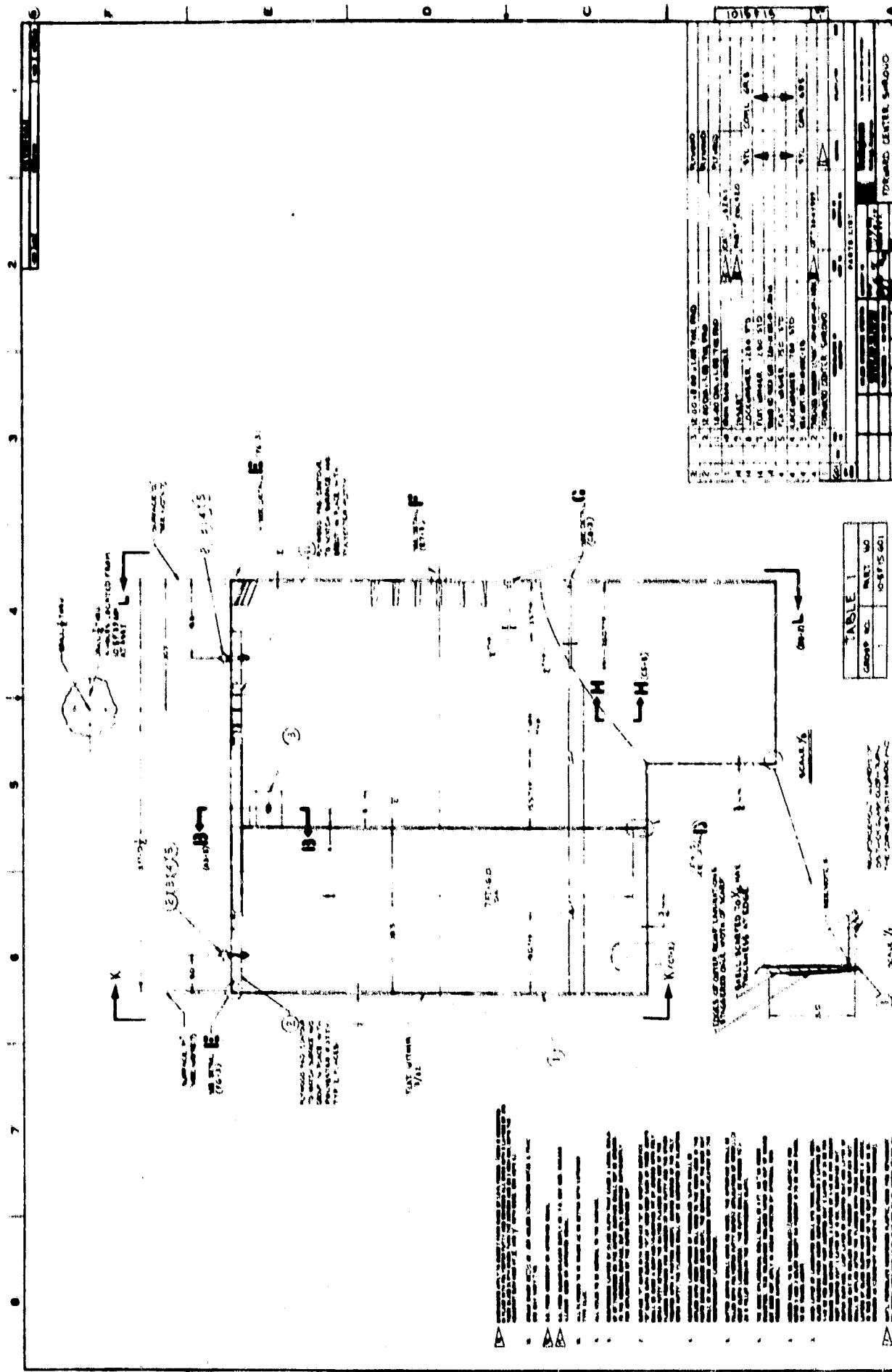


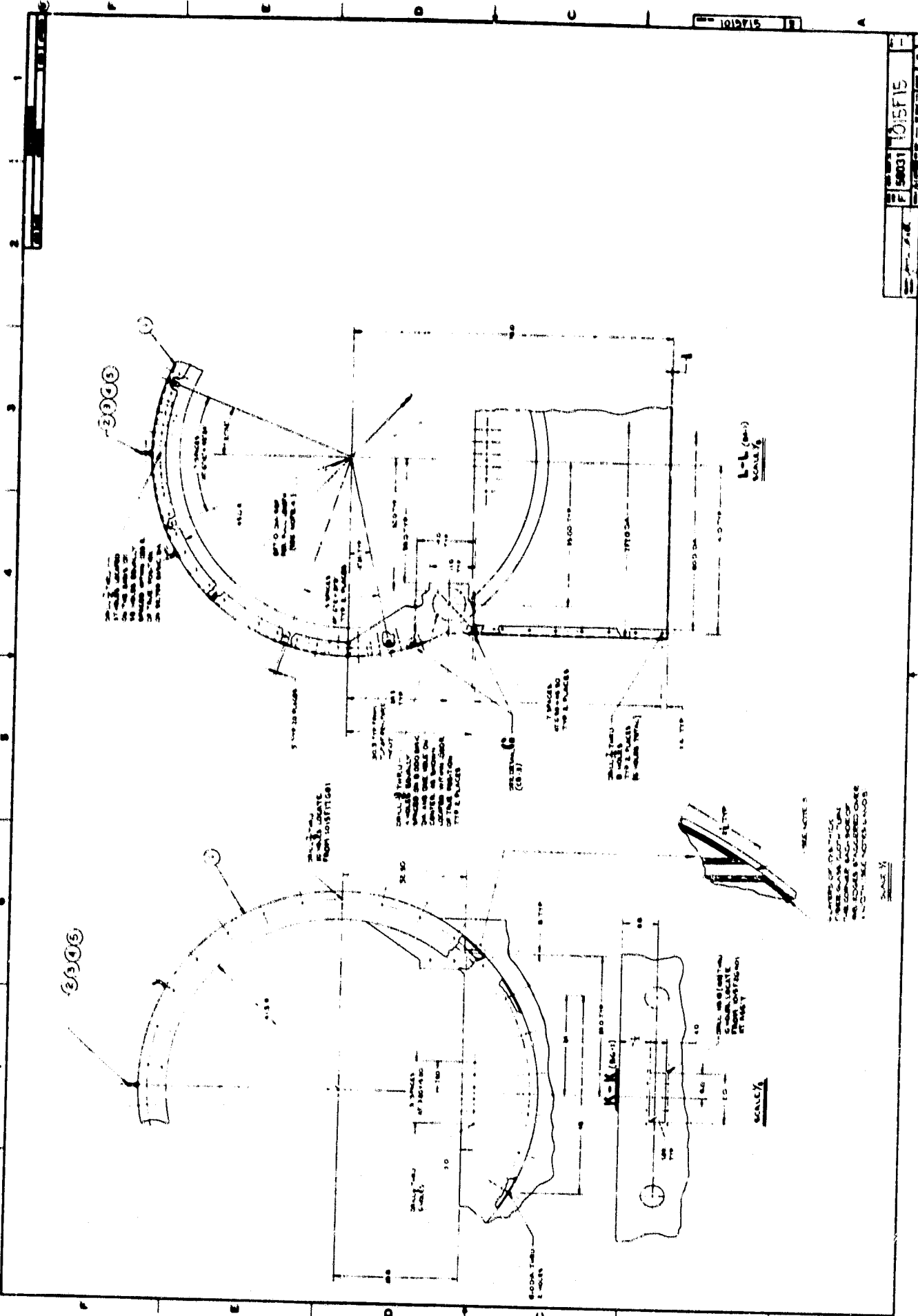
TABLE 1

COMP NO.	REV.	DATE
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REV. 10/15/50
SHEET 1 OF 1

PARTS LIST	
1	STEAM ENGINE
2	STEAM BOILER
3	WATER TANK
4	HULL SPACE
5	ENGINE ROOM
6	STEAM ROOM
7	WATER TANK
8	HULL SPACE
9	ENGINE ROOM
10	STEAM ROOM
11	WATER TANK
12	HULL SPACE
13	ENGINE ROOM
14	STEAM ROOM
15	WATER TANK
16	HULL SPACE
17	ENGINE ROOM
18	STEAM ROOM
19	WATER TANK
20	HULL SPACE

1015F15



SEE NOTE 5
 PORTION OF HULL
 SHOWN IN SECTION
 IS NOT TO SCALE
 FOR SQUARE DIMENSIONS
 SEE NOTE 6 AND 7

1-1 (sec.)
 SCALE 1/4"

SCALE 1/4"

K-K (sec.)

SECTION

SECTION

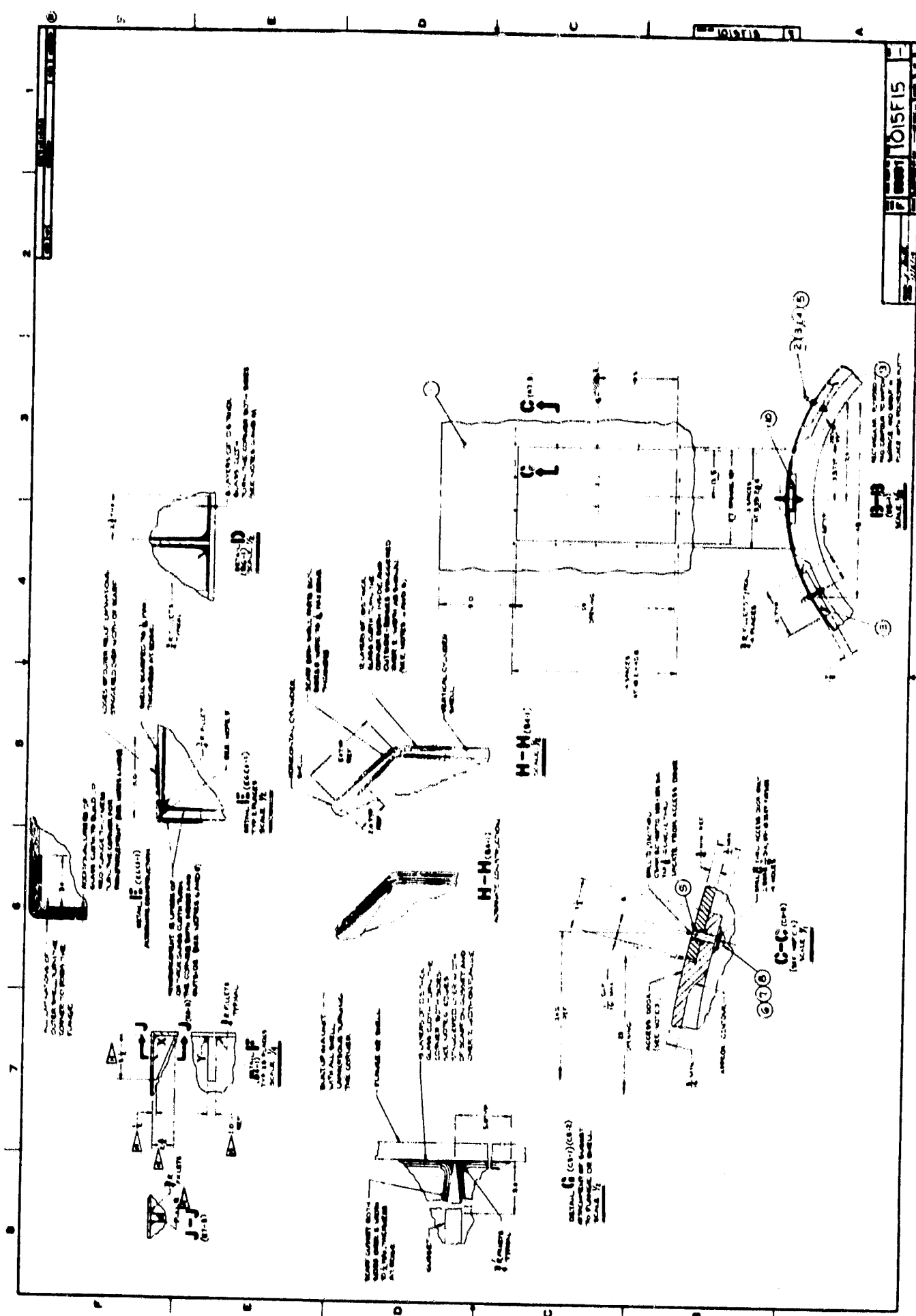
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SECTION

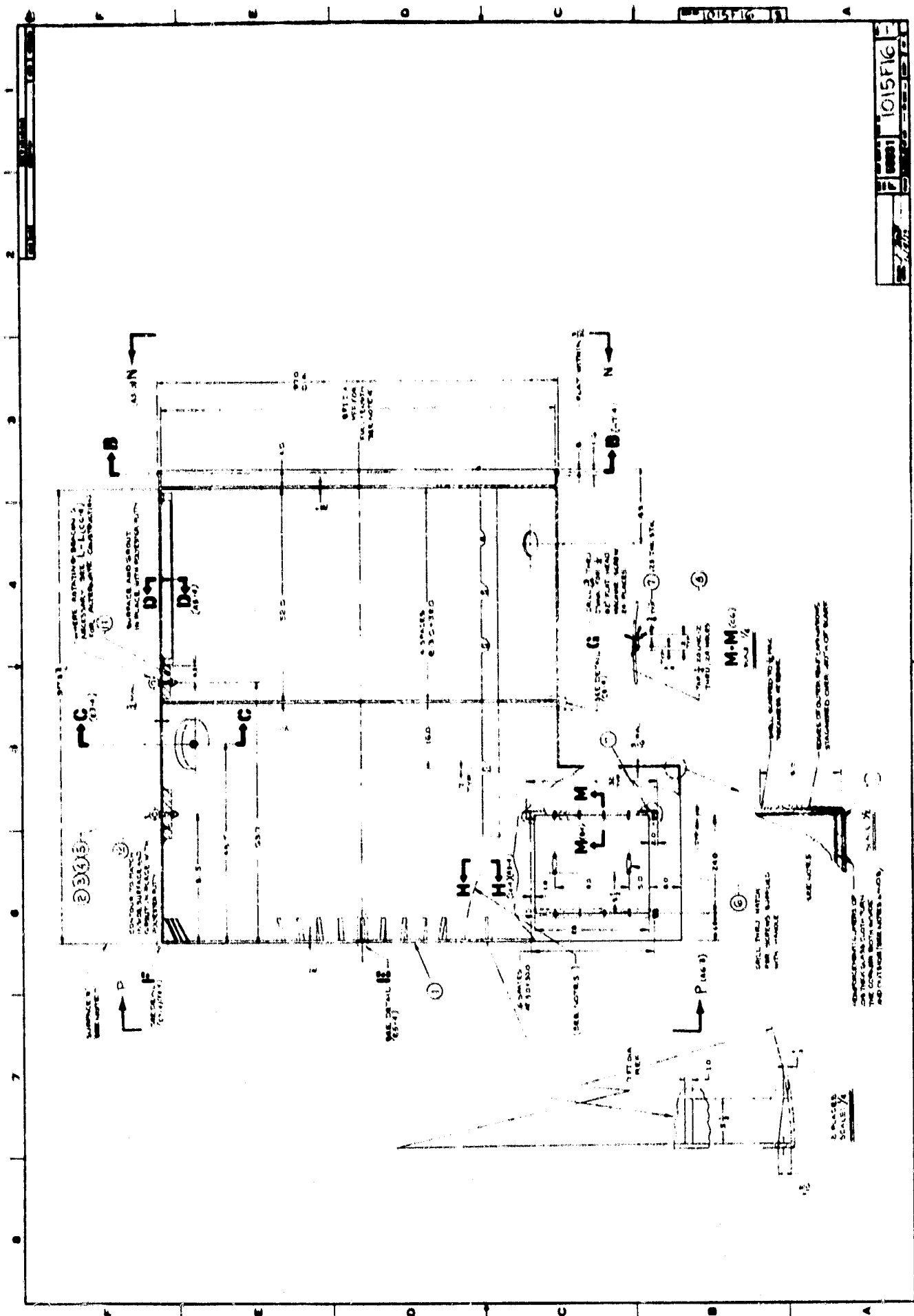
SECTION

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[illegible]



SCALE 1/4"

CONSTRUCTION NOTES:
1. ALL WALLS TO BE CONCRETE
2. ALL FLOORS TO BE CONCRETE
3. ALL ROOFS TO BE FLAT
4. ALL DOORS TO BE SWUNG OUT
5. ALL WINDOWS TO BE DOUBLE GLAZED
6. ALL EXTERIOR WALLS TO BE FINISHED WITH STUCCO
7. ALL INTERIOR WALLS TO BE FINISHED WITH PLASTER
8. ALL CEILING TO BE FINISHED WITH PLASTER
9. ALL FLOORS TO BE FINISHED WITH POLISHED CONCRETE
10. ALL ROOFS TO BE FINISHED WITH FLAT ROOFING

SEE NOTES

M-M (cc)

SEE NOTES

SEE NOTES

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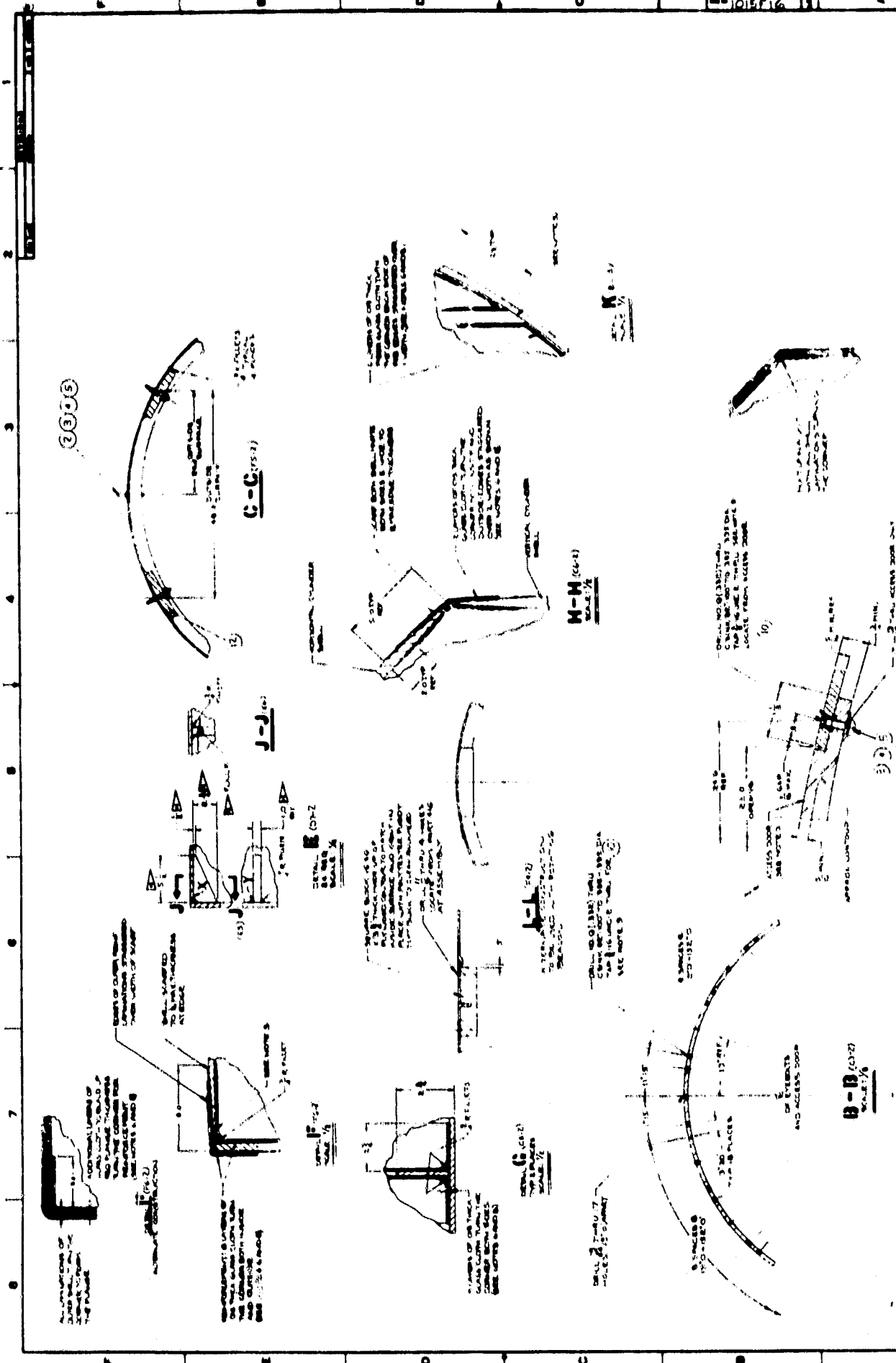
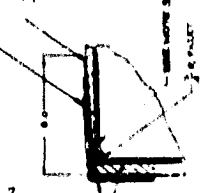
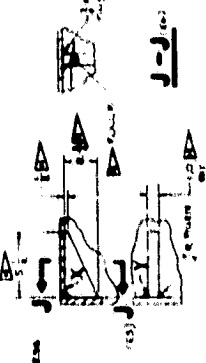
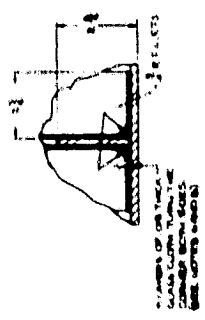
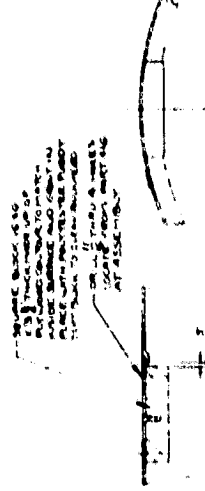
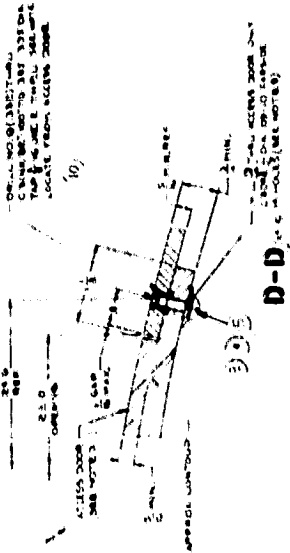
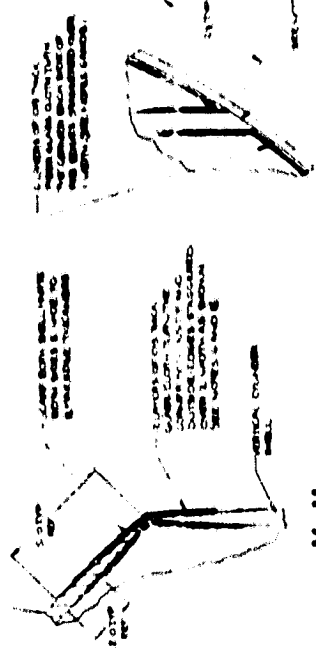
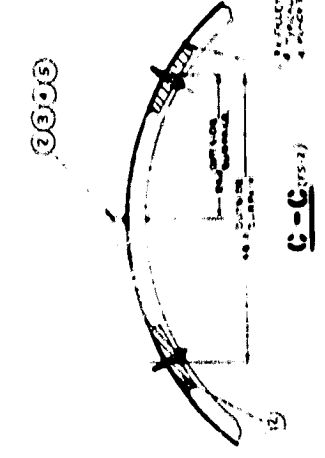
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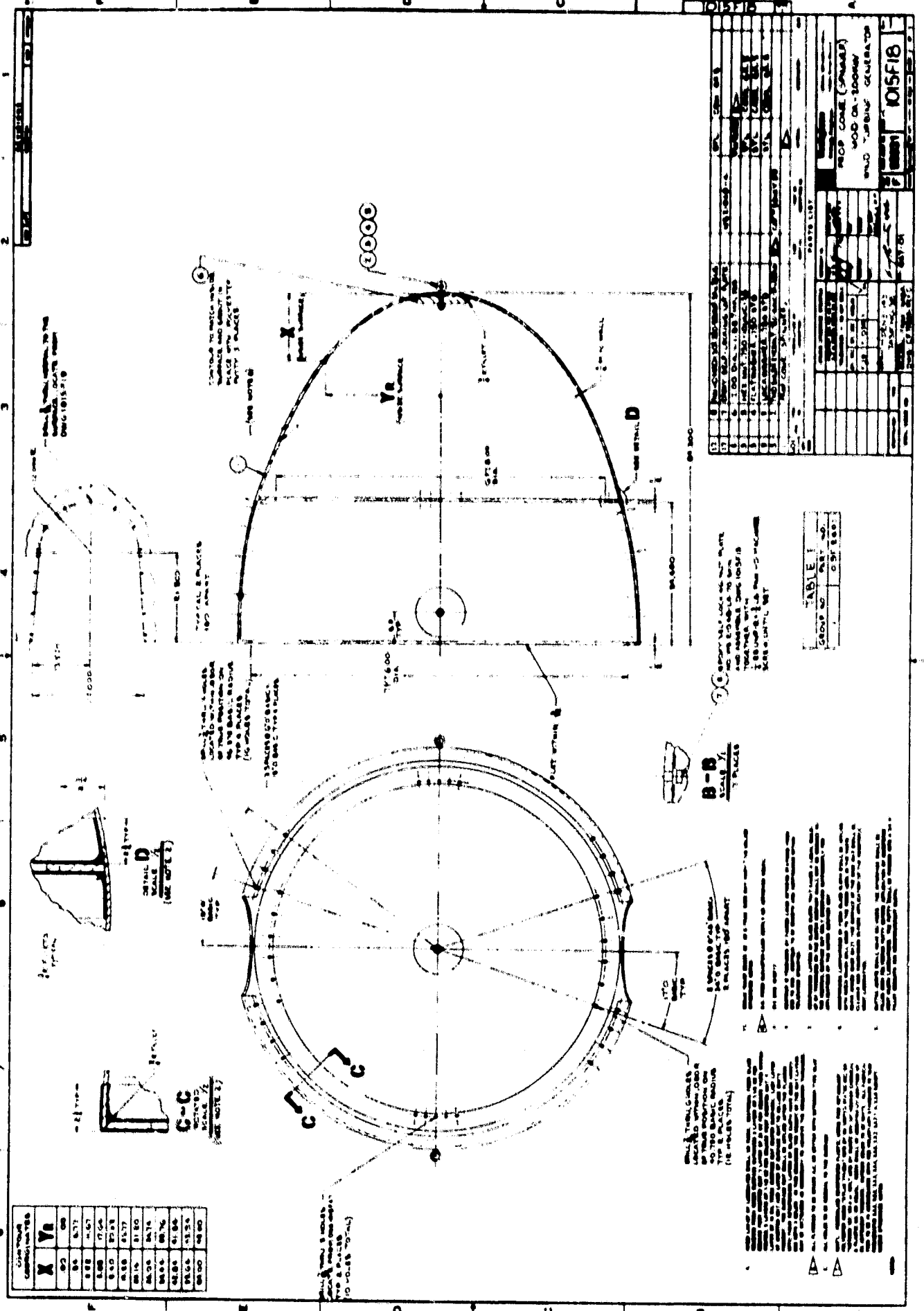
D-D

B-B

M-M

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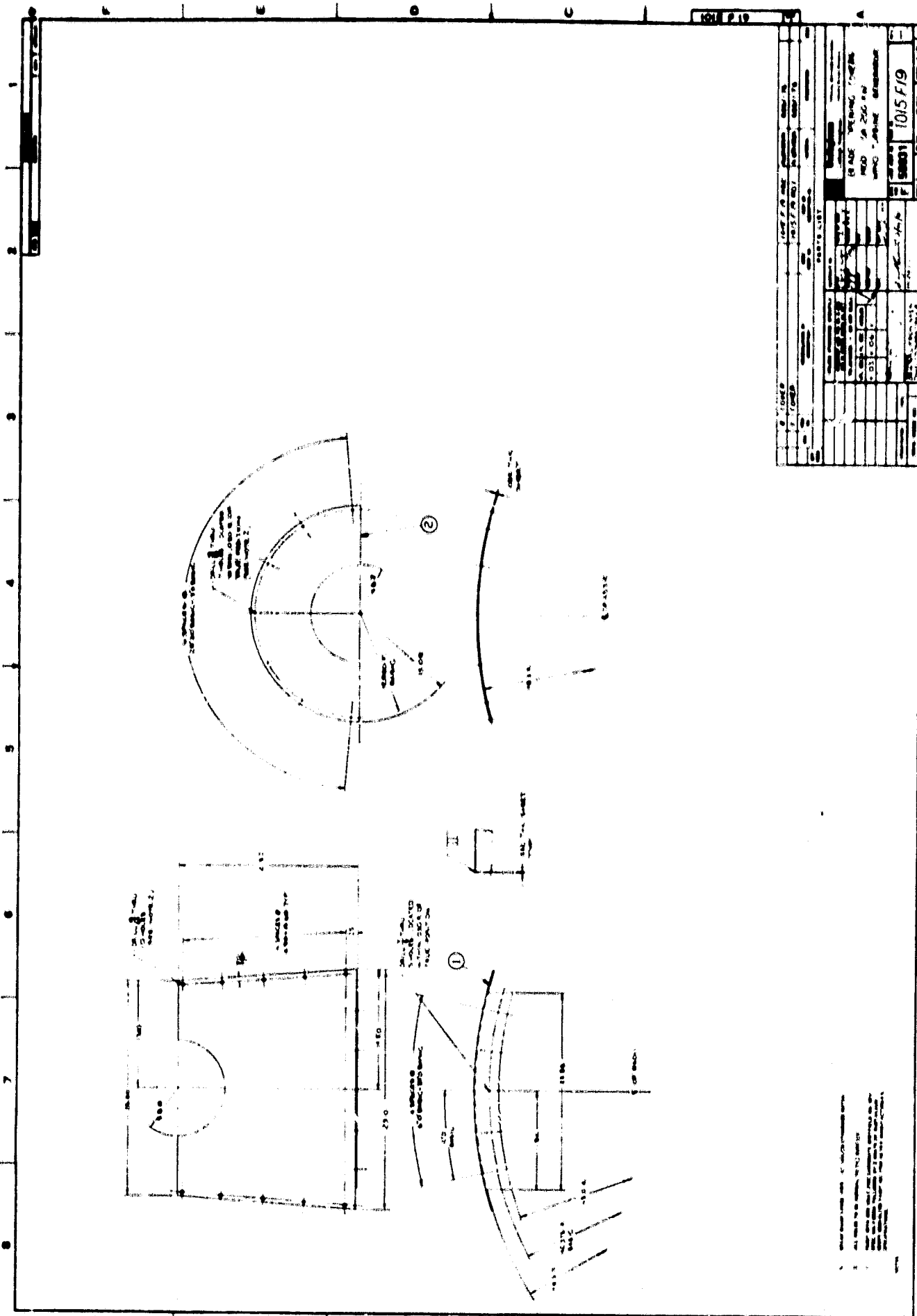


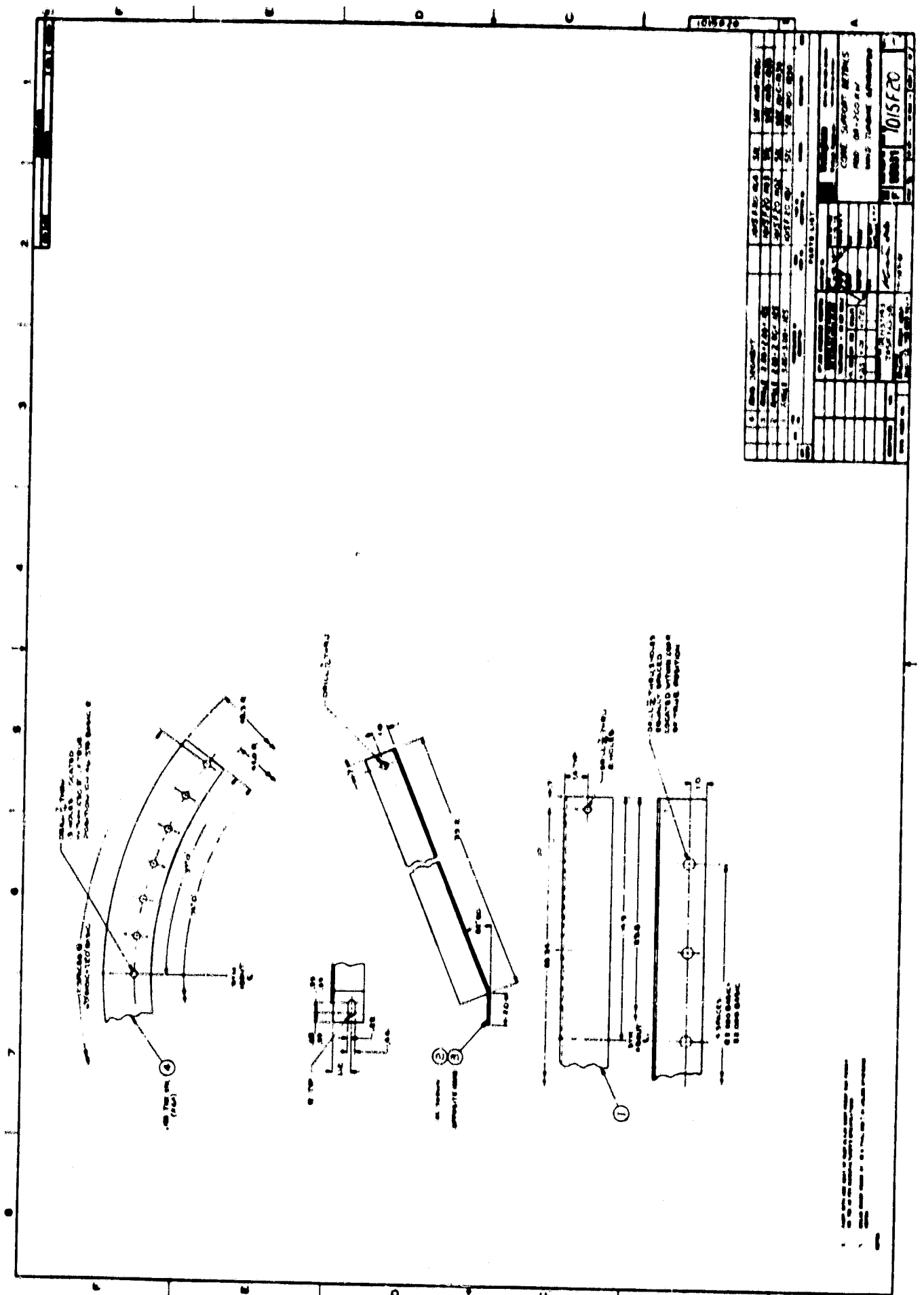
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0017	17	00
0018	18	00
0019	19	00
0020	20	00

NO.	DESCRIPTION	DATE	BY	CHECKED
1	DESIGN			
2	CONSTRUCTION			
3	INSTALLATION			
4	MAINTENANCE			
5	REPAIR			
6	REWORK			
7	REVISION			
8	REWORK			
9	REWORK			
10	REWORK			
11	REWORK			
12	REWORK			
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14	REWORK			
15	REWORK			
16	REWORK			
17	REWORK			
18	REWORK			
19	REWORK			
20	REWORK			

TABLE	GROUP NO.	DATE	BY	CHECKED
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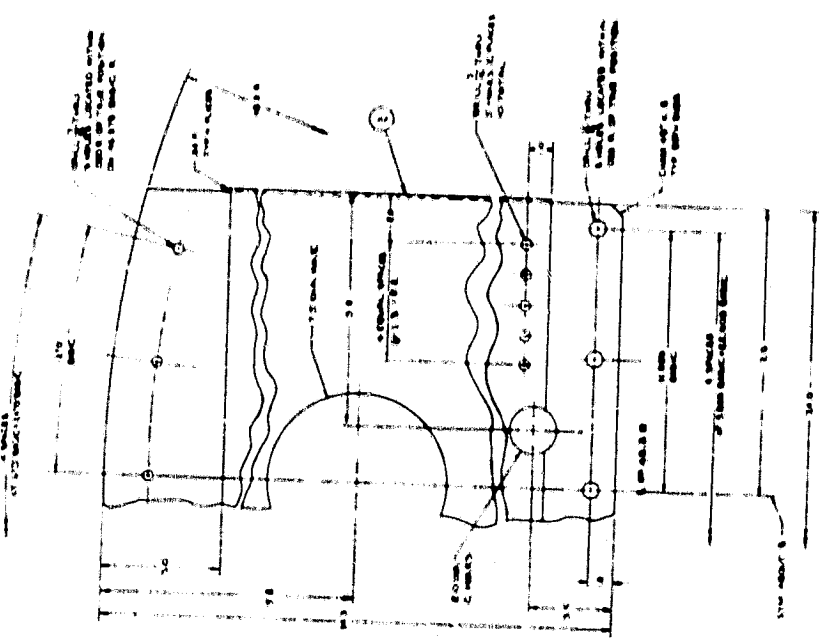
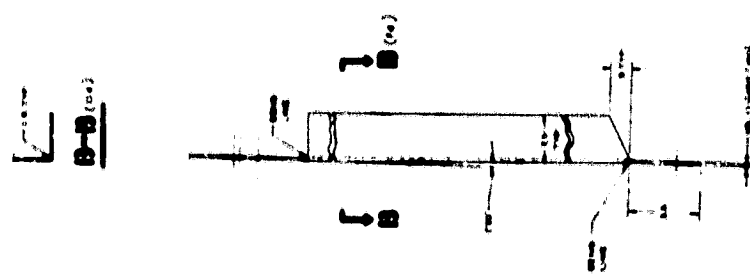
Notes and specifications regarding the hull construction, including material requirements, tolerances, and assembly instructions. The text is organized into numbered paragraphs and includes references to specific parts of the drawing.



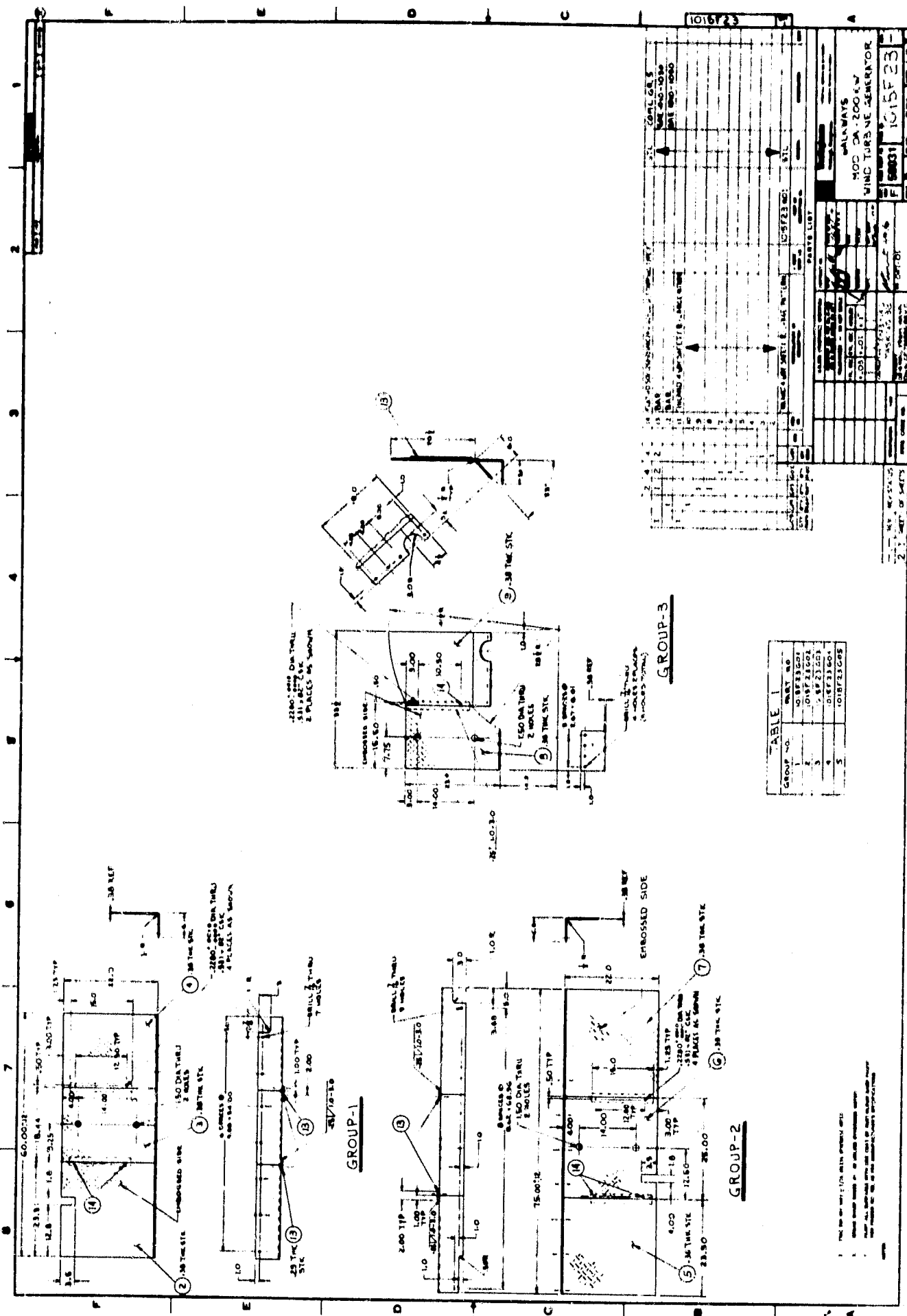


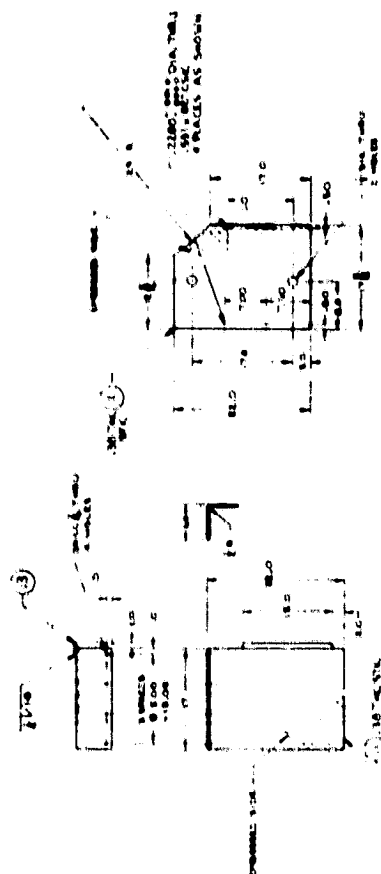
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2	FRONT SUSPENSION 2	1	1	1	1	1	1	1	1
3	REAR SUSPENSION 3	1	1	1	1	1	1	1	1
4	VEHICLE 4	1	1	1	1	1	1	1	1
TOTAL		4	4	4	4	4	4	4	4

1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	

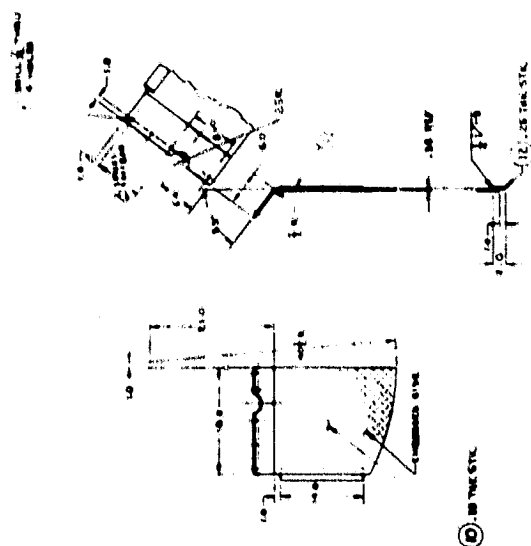


1. THE DRAWING IS A TECHNICAL DRAWING.
2. THE DRAWING IS A TECHNICAL DRAWING.
3. THE DRAWING IS A TECHNICAL DRAWING.





GROUP-5



GROUP-4

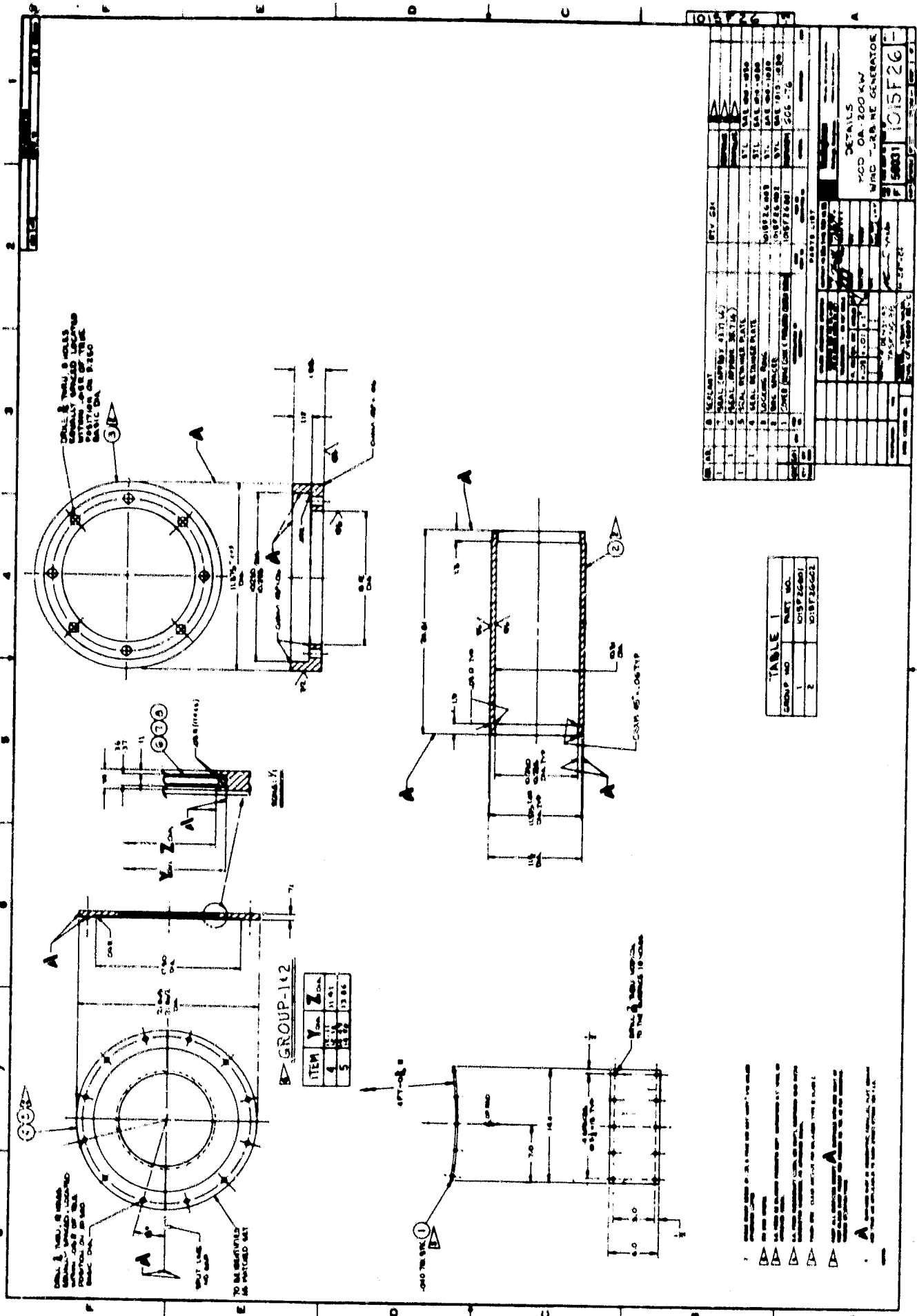
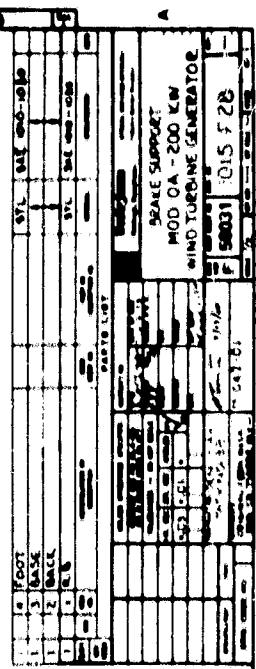


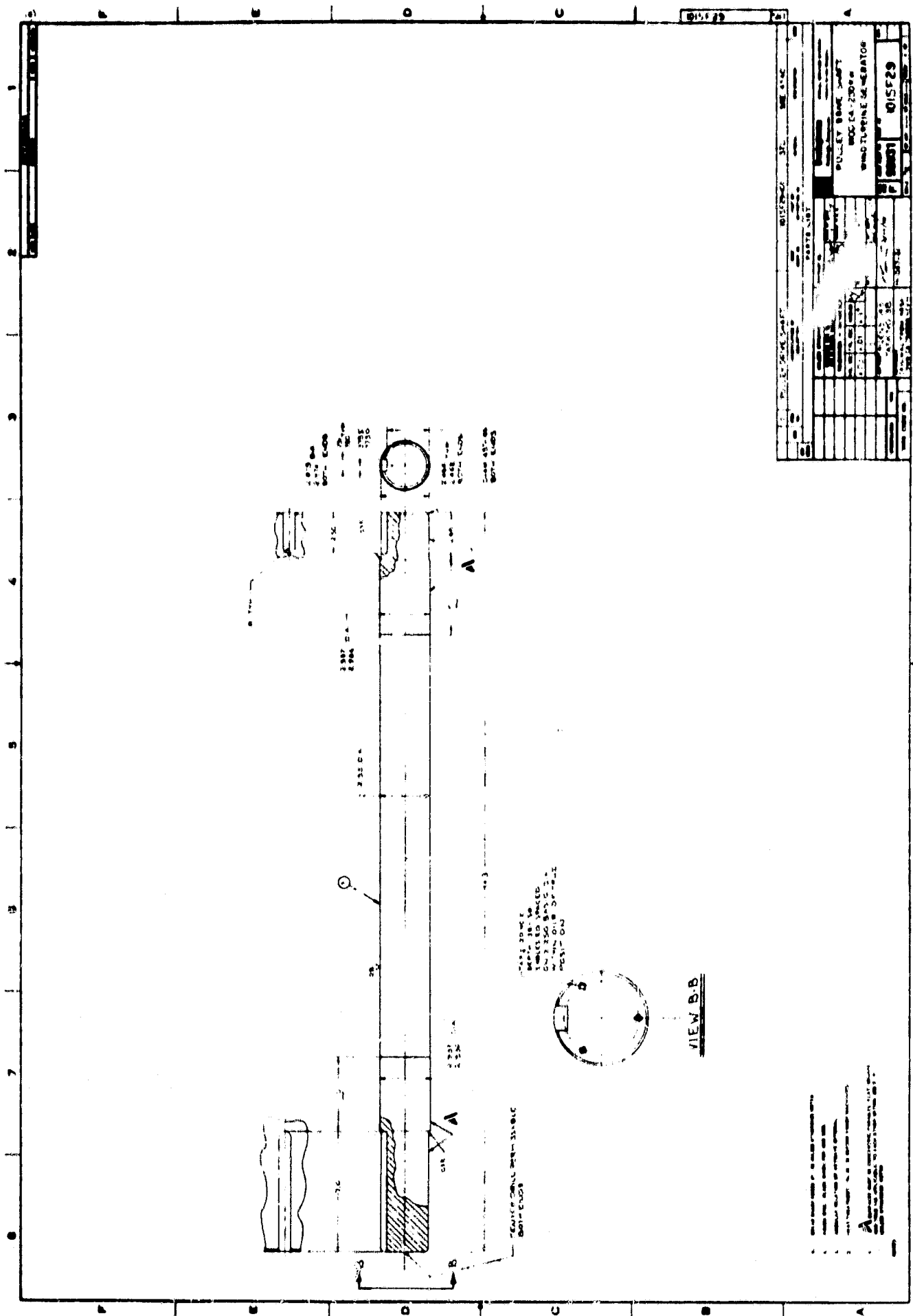
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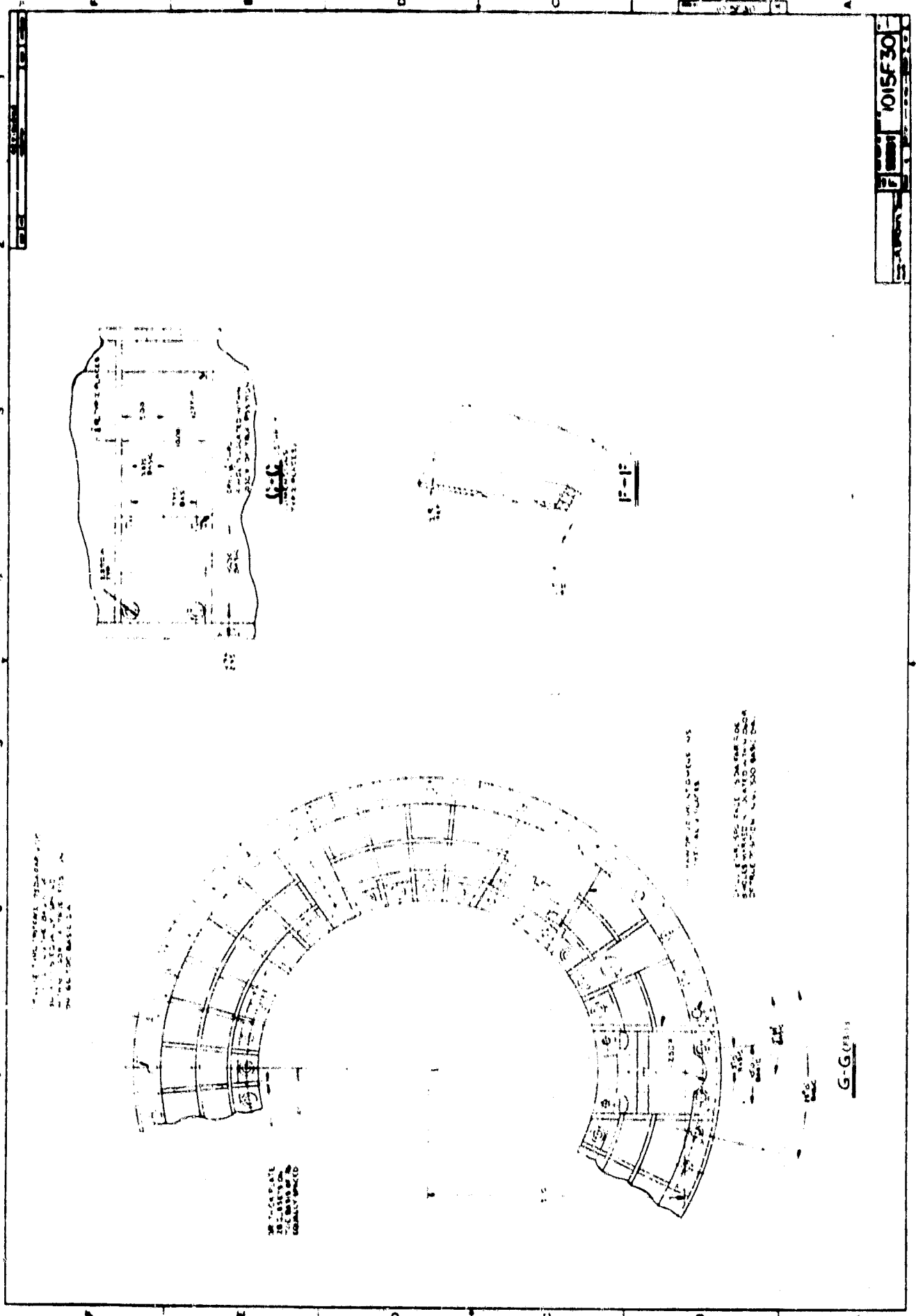
GROUP NO.	PART NO.
1	1015F2601
2	1015F2602

ITEM	DESCRIPTION	QTY	UNIT
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3	SHAFT & SHAFT HUBS	1	EA
4	SHAFT & SHAFT HUBS	1	EA
5	SHAFT & SHAFT HUBS	1	EA
6	SHAFT & SHAFT HUBS	1	EA
7	SHAFT & SHAFT HUBS	1	EA
8	SHAFT & SHAFT HUBS	1	EA
9	SHAFT & SHAFT HUBS	1	EA
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12	SHAFT & SHAFT HUBS	1	EA
13	SHAFT & SHAFT HUBS	1	EA
14	SHAFT & SHAFT HUBS	1	EA
15	SHAFT & SHAFT HUBS	1	EA
16	SHAFT & SHAFT HUBS	1	EA
17	SHAFT & SHAFT HUBS	1	EA
18	SHAFT & SHAFT HUBS	1	EA
19	SHAFT & SHAFT HUBS	1	EA
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21	SHAFT & SHAFT HUBS	1	EA
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23	SHAFT & SHAFT HUBS	1	EA
24	SHAFT & SHAFT HUBS	1	EA
25	SHAFT & SHAFT HUBS	1	EA
26	SHAFT & SHAFT HUBS	1	EA
27	SHAFT & SHAFT HUBS	1	EA
28	SHAFT & SHAFT HUBS	1	EA
29	SHAFT & SHAFT HUBS	1	EA
30	SHAFT & SHAFT HUBS	1	EA
31	SHAFT & SHAFT HUBS	1	EA
32	SHAFT & SHAFT HUBS	1	EA
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95	SHAFT & SHAFT HUBS	1	EA
96	SHAFT & SHAFT HUBS	1	EA
97	SHAFT & SHAFT HUBS	1	EA
98	SHAFT & SHAFT HUBS	1	EA
99	SHAFT & SHAFT HUBS	1	EA
100	SHAFT & SHAFT HUBS	1	EA

DETAILS
MOD OA-200AW
WMD - OR NE GENERATOR
P 50031 1015F26

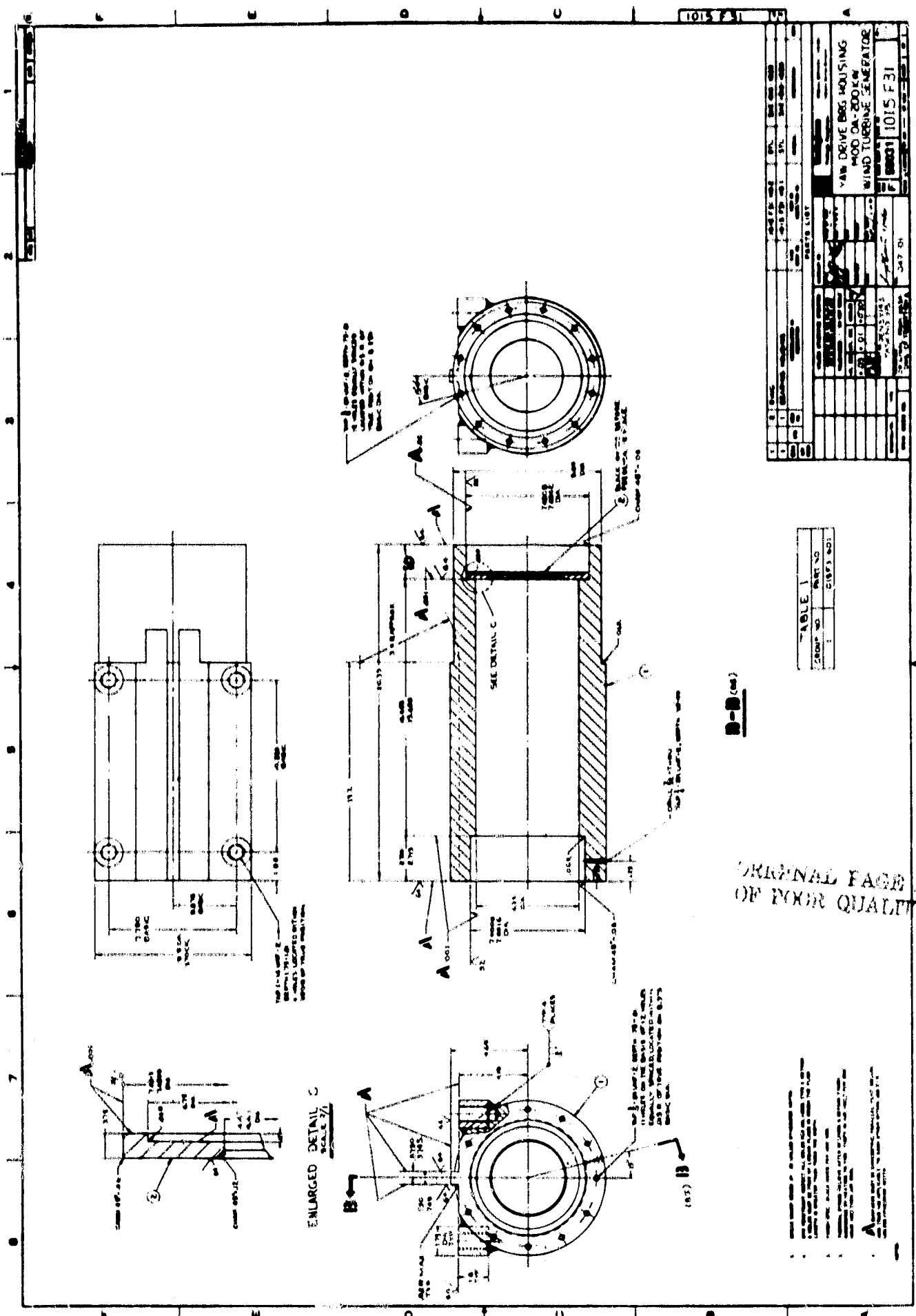


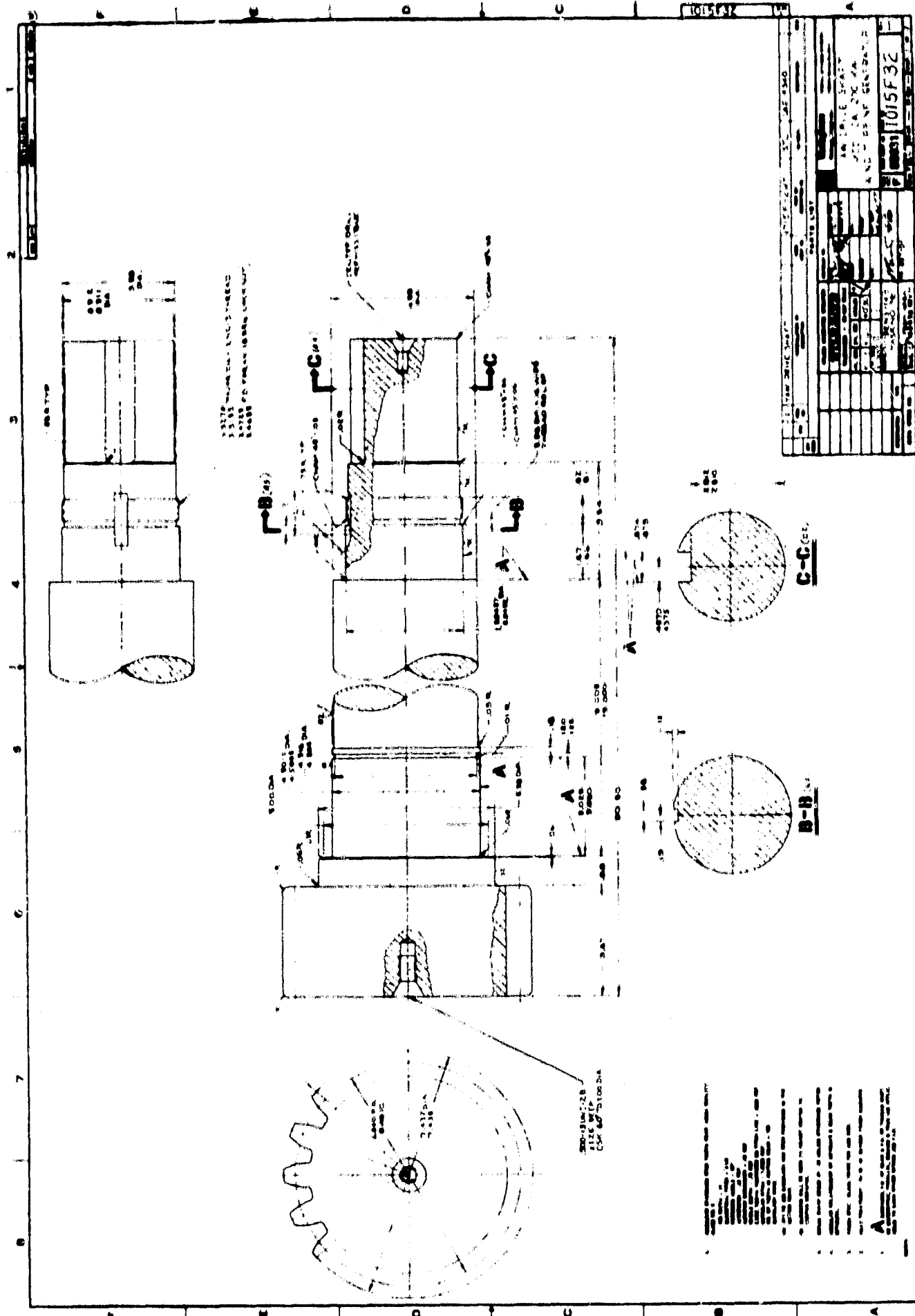




015F30

G-G (P. 1)

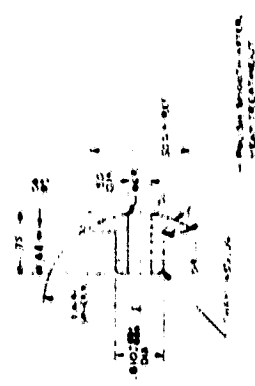




[illegible]

2

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123 456789

— 42 —

B-CODE **CONFIDENTIAL**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

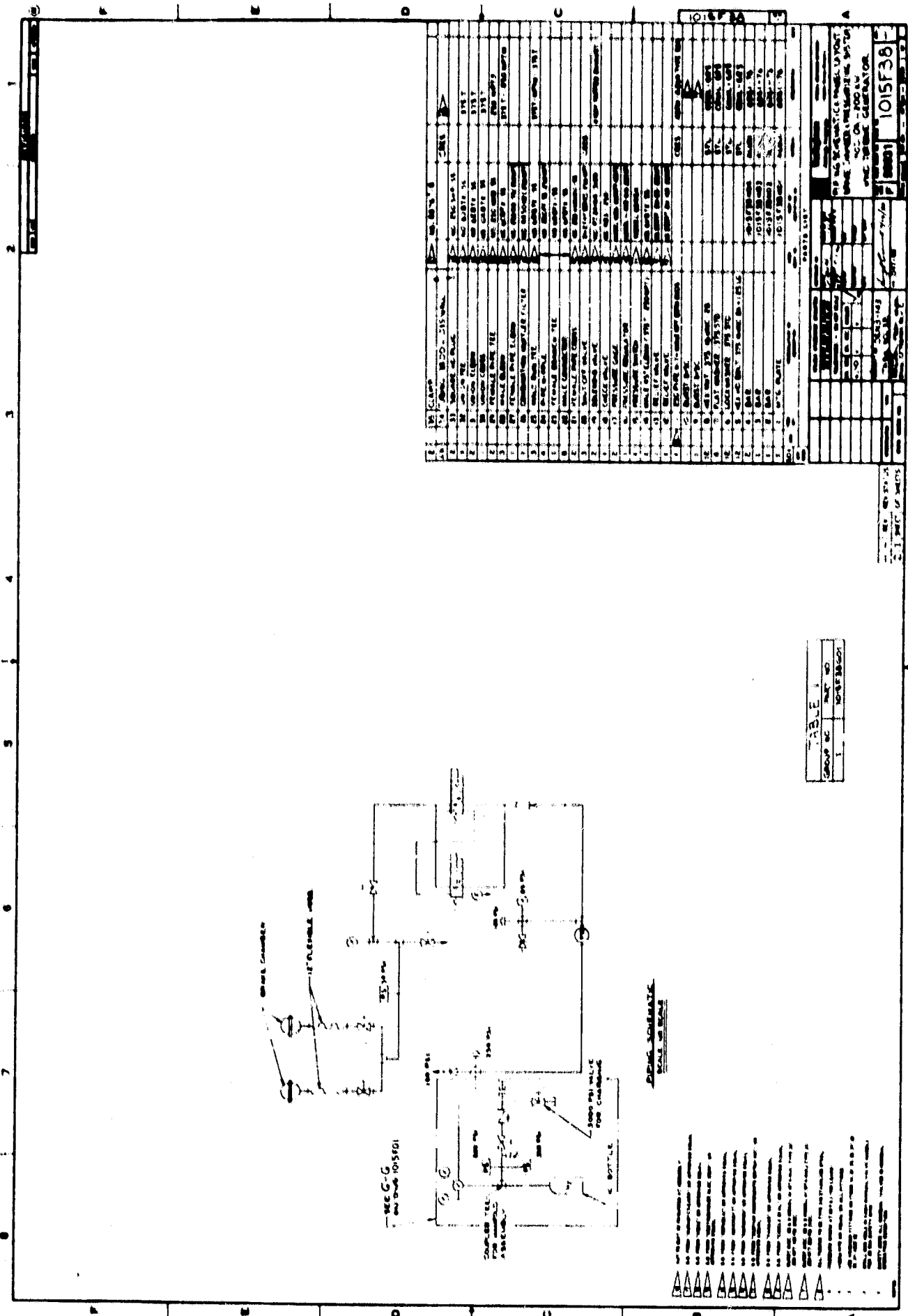
TABLE I

	B	C	D	E	F	G
1	90	5	10	500	(27)	6
2	18	11	50	500	312	12
3	57	1	251	053	(12)	2

1. The first of these is the fact that the Commission has not yet received any information from the Government of the United States regarding the results of its investigation of the activities of the American Friends Service Committee in the Philippines.

[illegible]

[illegible]



SEE G-6
AND DRAW 1015501

GENERAL NOTES

1. THE PARTS OF THIS DRAWING ARE TO BE MANUFACTURED TO THE DIMENSIONS SHOWN UNLESS OTHERWISE SPECIFIED.

2. ALL DIMENSIONS ARE TO BE GIVEN IN INCHES AND DECIMALS THEREOF.

3. ALL DIMENSIONS ARE TO BE GIVEN TO THE CENTER OF THE PART UNLESS OTHERWISE SPECIFIED.

4. ALL DIMENSIONS ARE TO BE GIVEN TO THE SURFACE OF THE PART UNLESS OTHERWISE SPECIFIED.

5. ALL DIMENSIONS ARE TO BE GIVEN TO THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED.

6. ALL DIMENSIONS ARE TO BE GIVEN TO THE SURFACE OF THE HOLE UNLESS OTHERWISE SPECIFIED.

7. ALL DIMENSIONS ARE TO BE GIVEN TO THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED.

8. ALL DIMENSIONS ARE TO BE GIVEN TO THE SURFACE OF THE HOLE UNLESS OTHERWISE SPECIFIED.

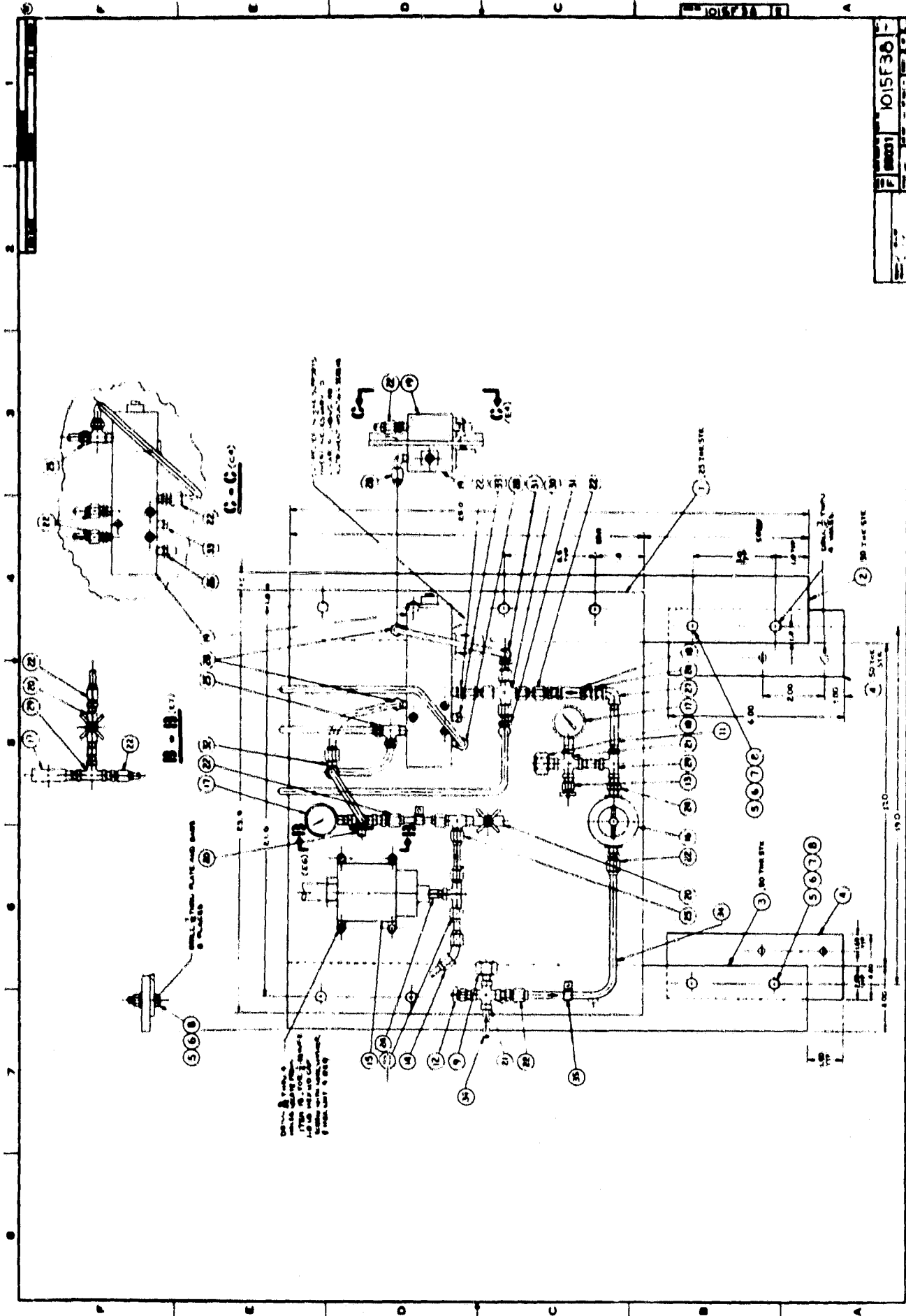
9. ALL DIMENSIONS ARE TO BE GIVEN TO THE CENTER OF THE HOLE UNLESS OTHERWISE SPECIFIED.

10. ALL DIMENSIONS ARE TO BE GIVEN TO THE SURFACE OF THE HOLE UNLESS OTHERWISE SPECIFIED.

REV.	DATE	BY	CHKD.
1	10/15/38		

REV.	DATE	BY	CHKD.
1	10/15/38		

1015F38



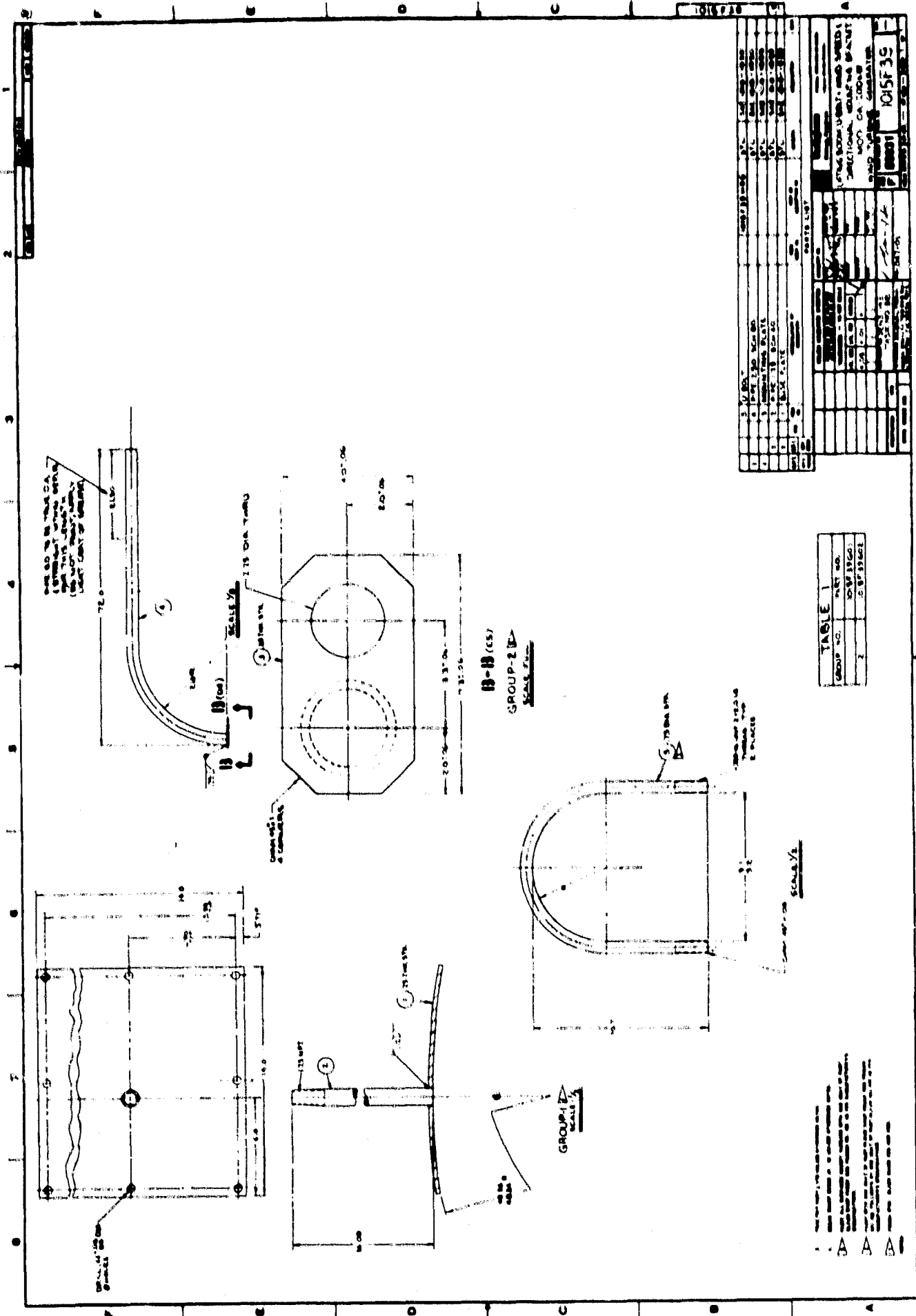
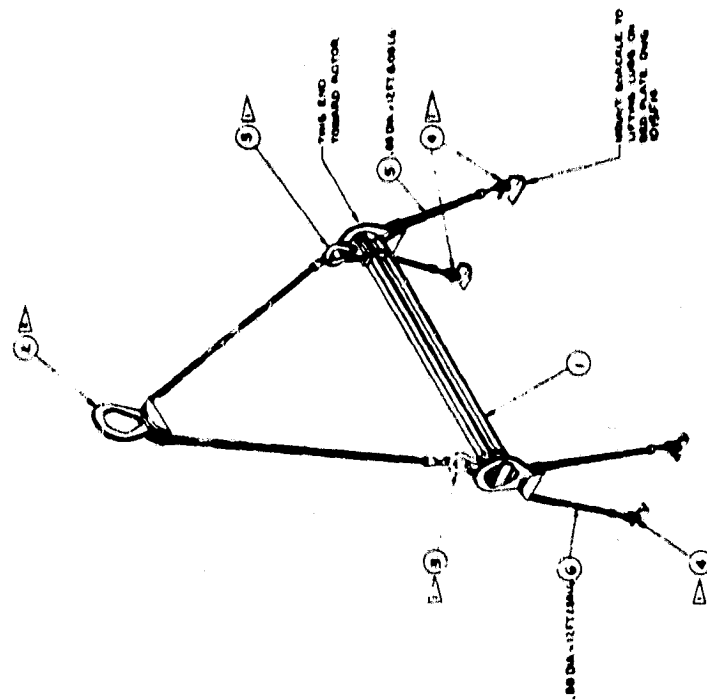


TABLE 1

GROUP NO.	PART NO.	DATE	BY
1	1015F39	10/15/39	1015F39

GENERAL INFORMATION		PARTS LIST	
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2	1015F39	2	1015F39
3	1015F39	3	1015F39
4	1015F39	4	1015F39
5	1015F39	5	1015F39
6	1015F39	6	1015F39
7	1015F39	7	1015F39
8	1015F39	8	1015F39
9	1015F39	9	1015F39
10	1015F39	10	1015F39
11	1015F39	11	1015F39
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98	1015F39	98	1015F39
99	1015F39	99	1015F39
100	1015F39	100	1015F39



GROUP 1

TABLE 1	
COMP. NO.	PART NO.
1	1015F41

PARTS LIST	
1	DOUBLE END SUPPORT
2	DOUBLE END SUPPORT
3	DOUBLE END SUPPORT
4	DOUBLE END SUPPORT
5	DOUBLE END SUPPORT
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100	DOUBLE END SUPPORT

1015F41

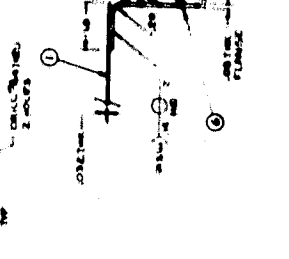
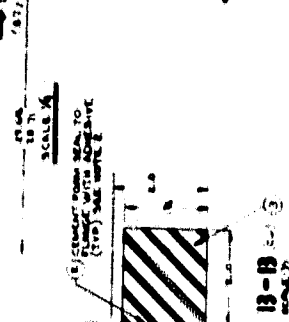
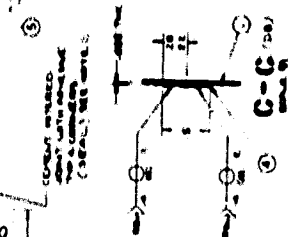
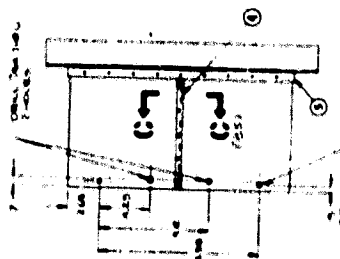
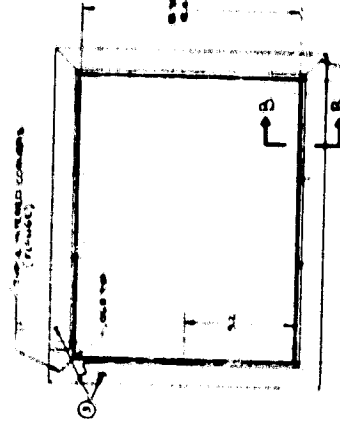
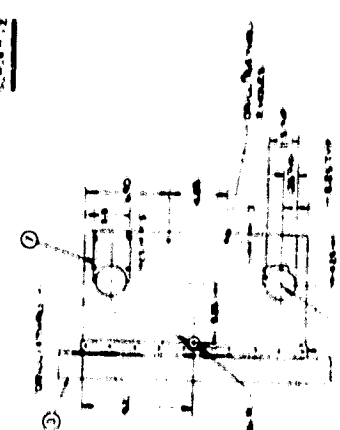
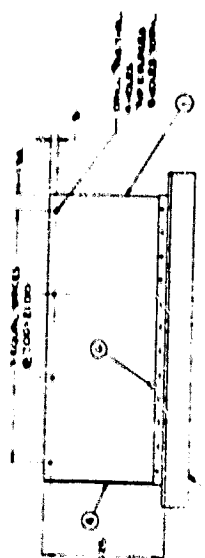
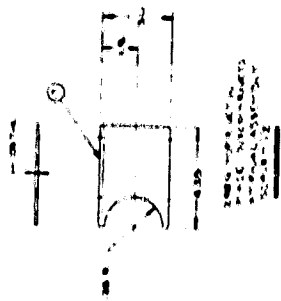
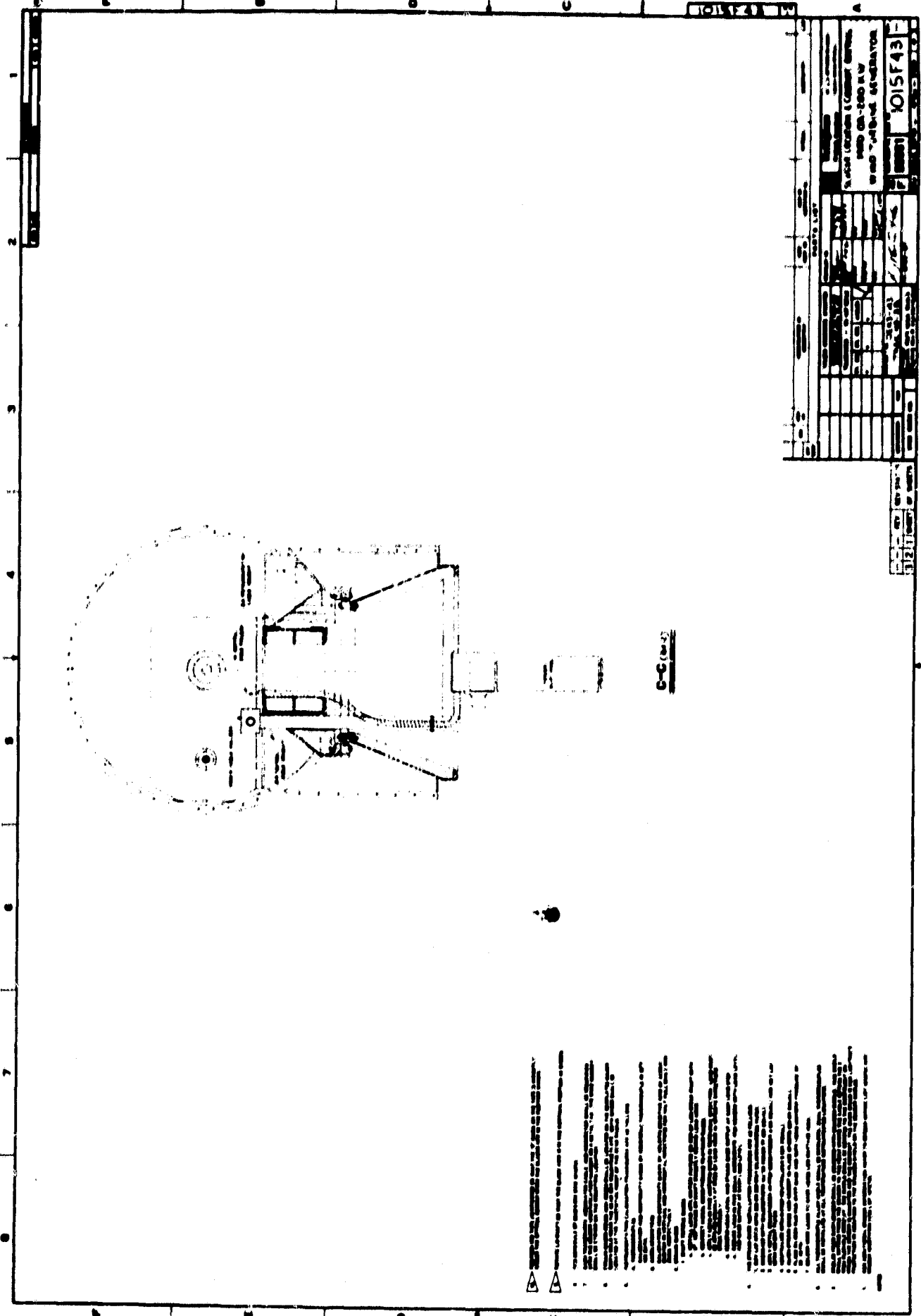


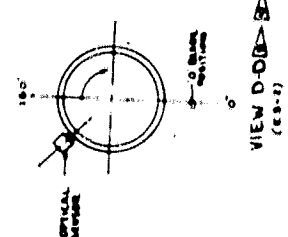
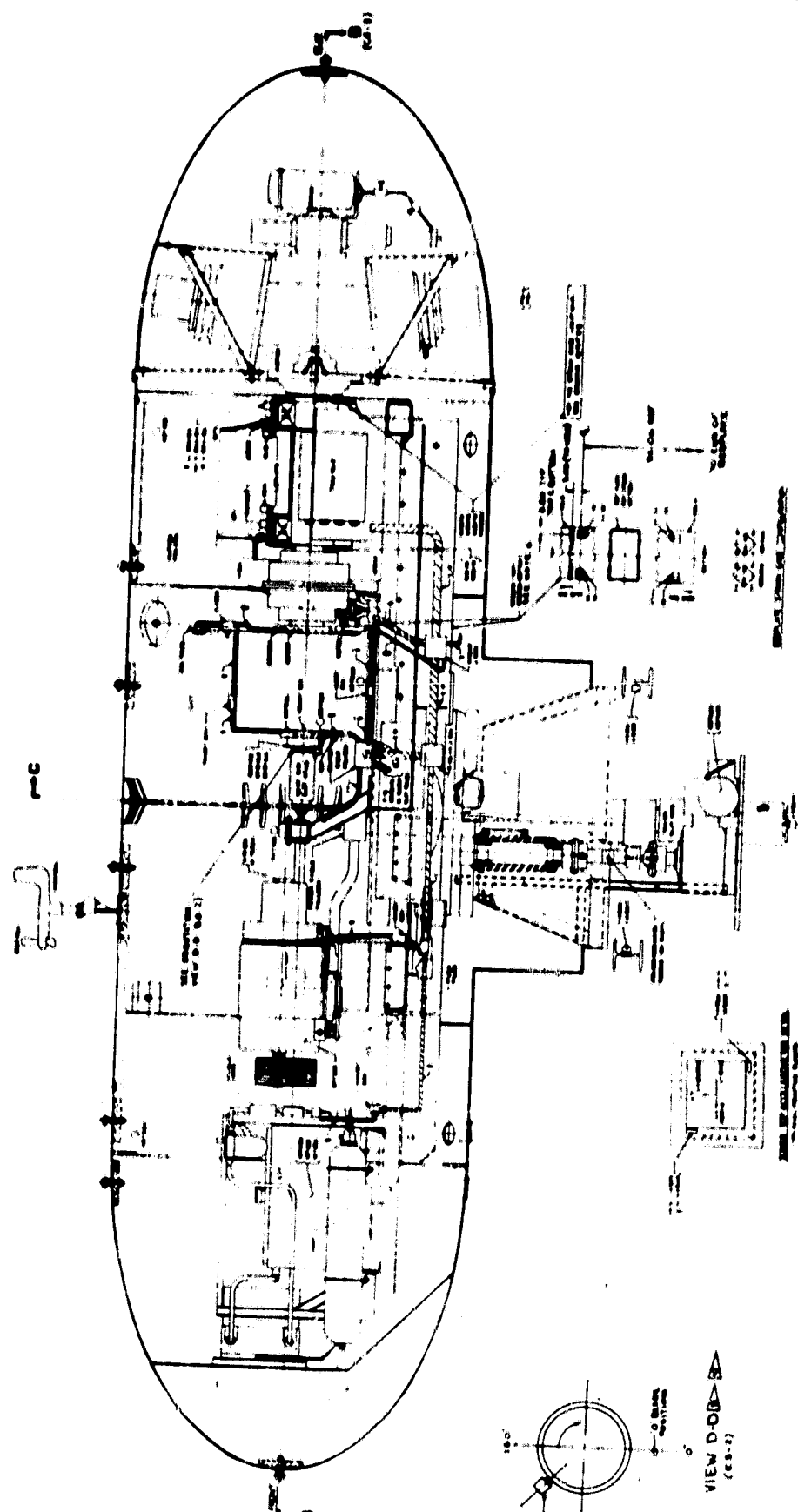
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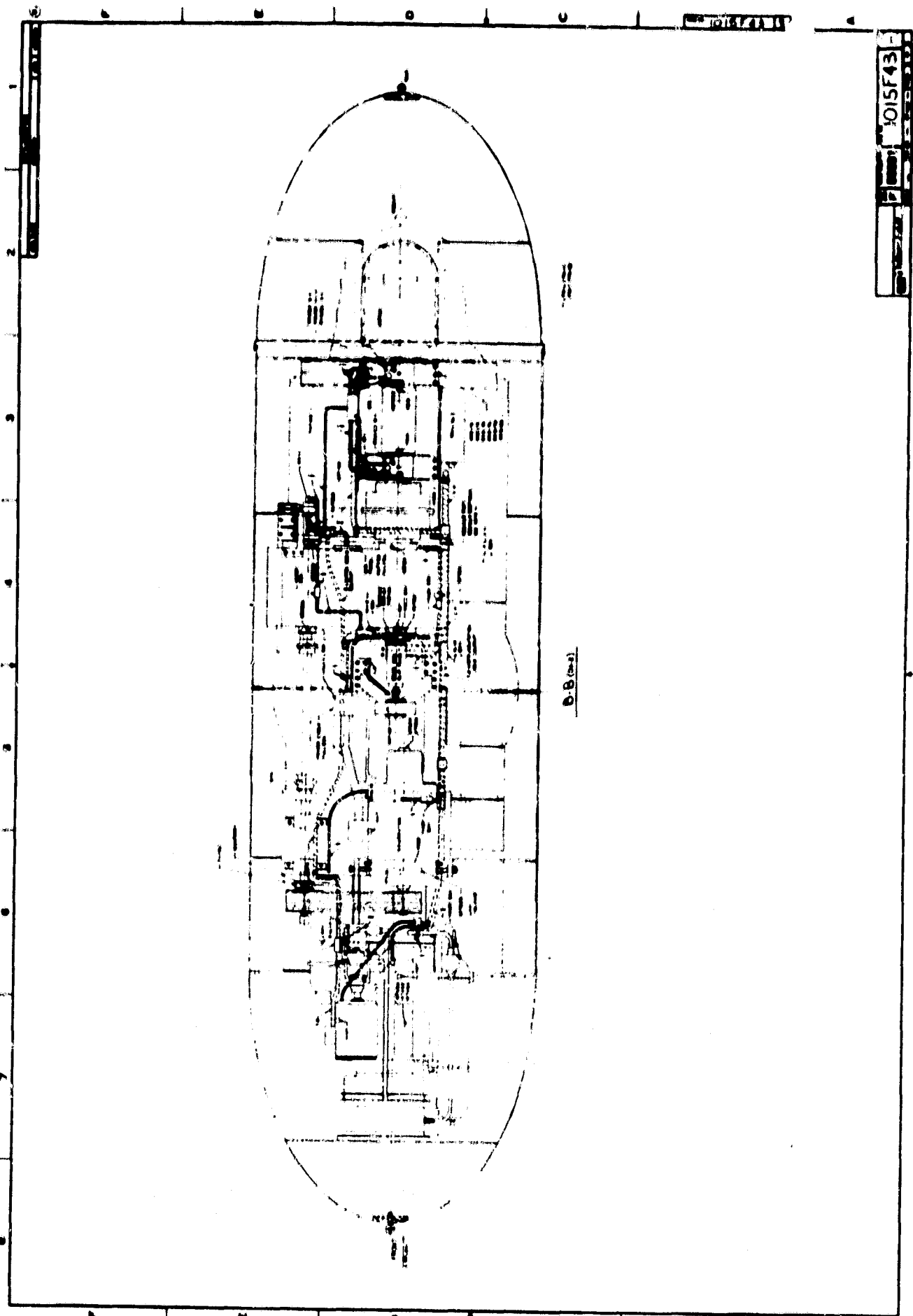
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13	1015F42	1	1	1	1	1	1
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1. THIS DRAWING IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS TO BE USED FOR THE PURPOSES SPECIFIED THEREIN. IT IS TO BE RETURNED TO THE U.S. GOVERNMENT WHEN NO LONGER REQUIRED.



1015F43





1015F43

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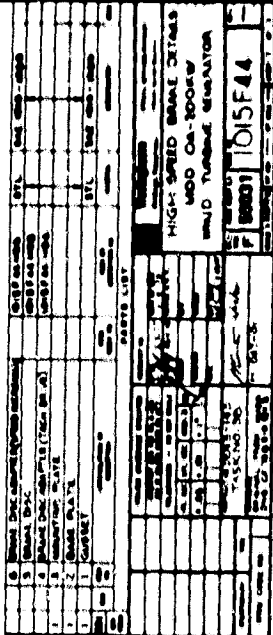


TABLE 1	
GROUP NO.	PART NO.
1	DISF4601

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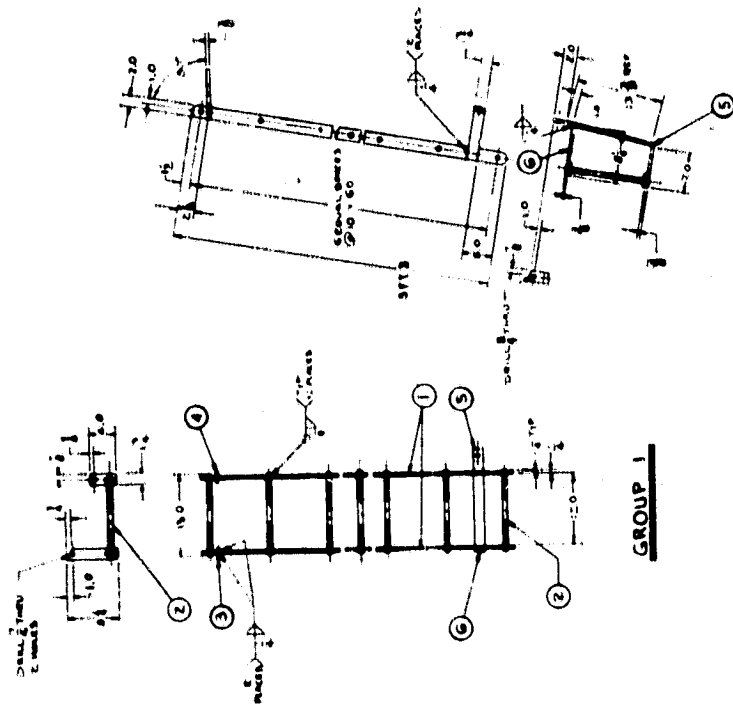
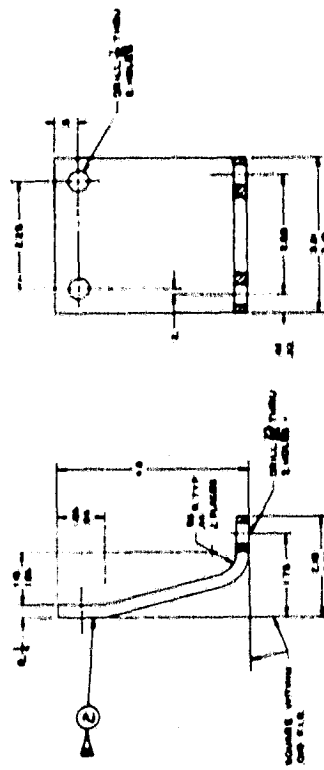


TABLE 1
GROUP NO. 1
PART NO. 1015F46

ITEM NO.		PARTS LIST		QTY.		UNIT		QTY.		UNIT	
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2	BACK PLATE										
3	SCREW PLATE										
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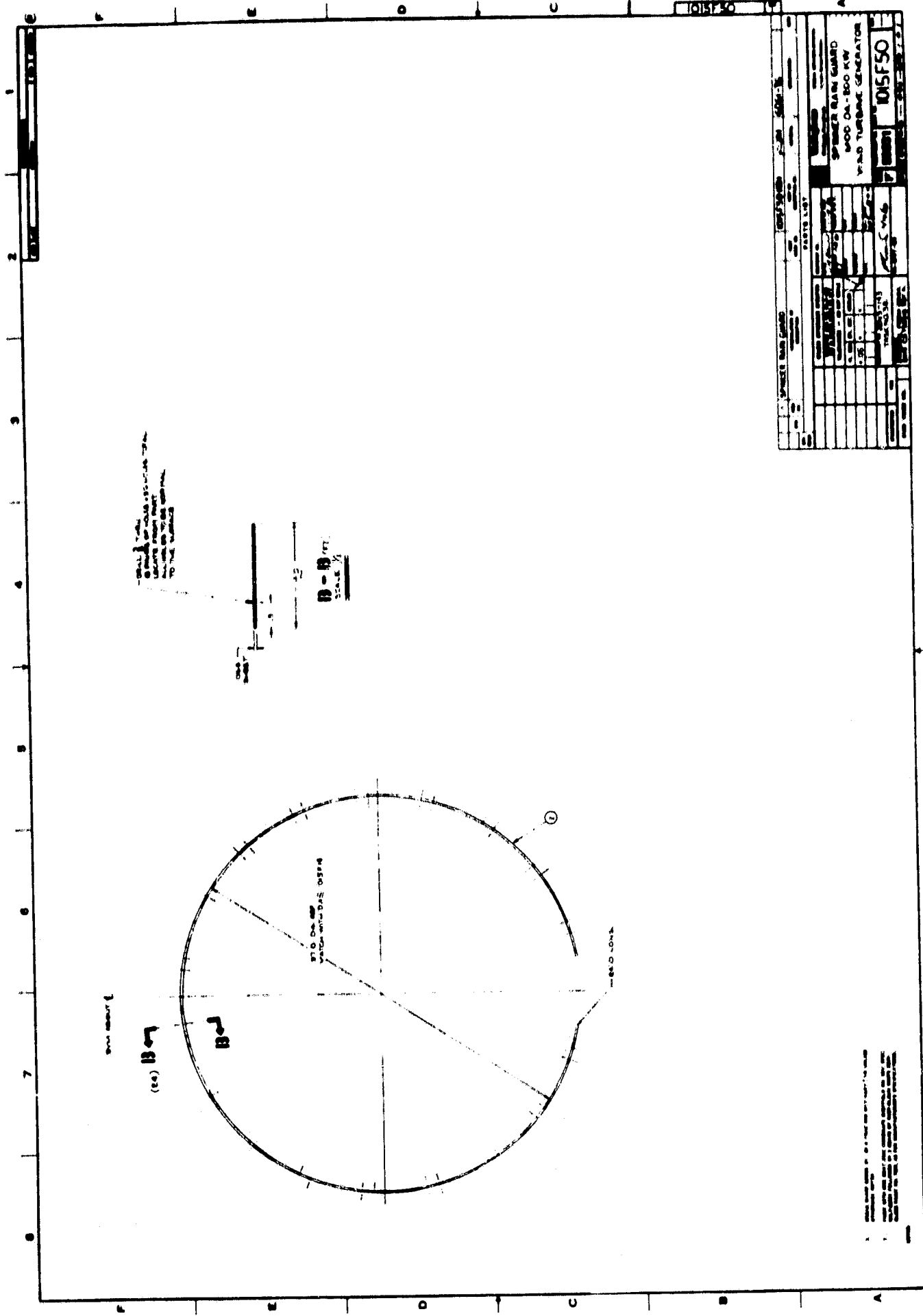
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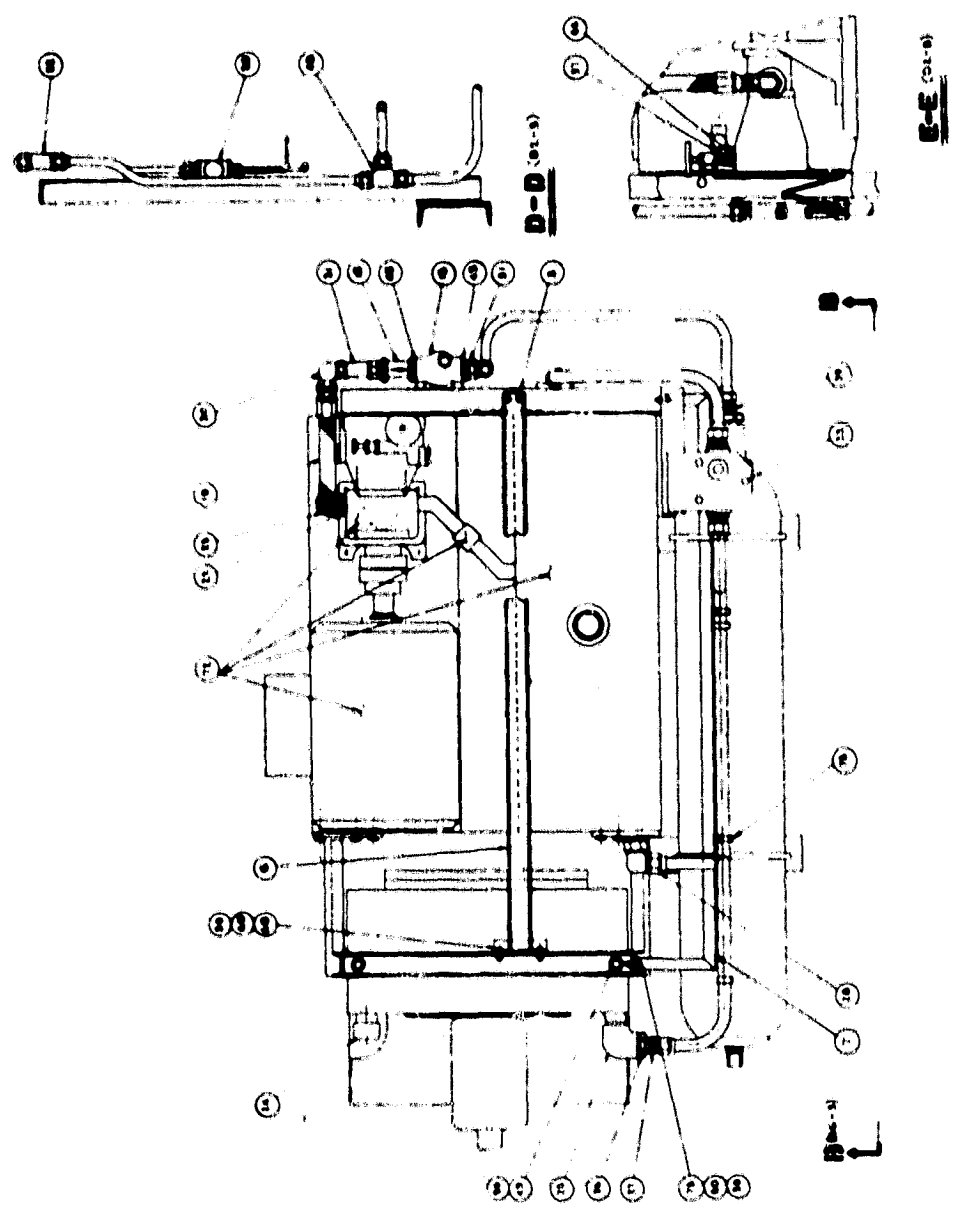
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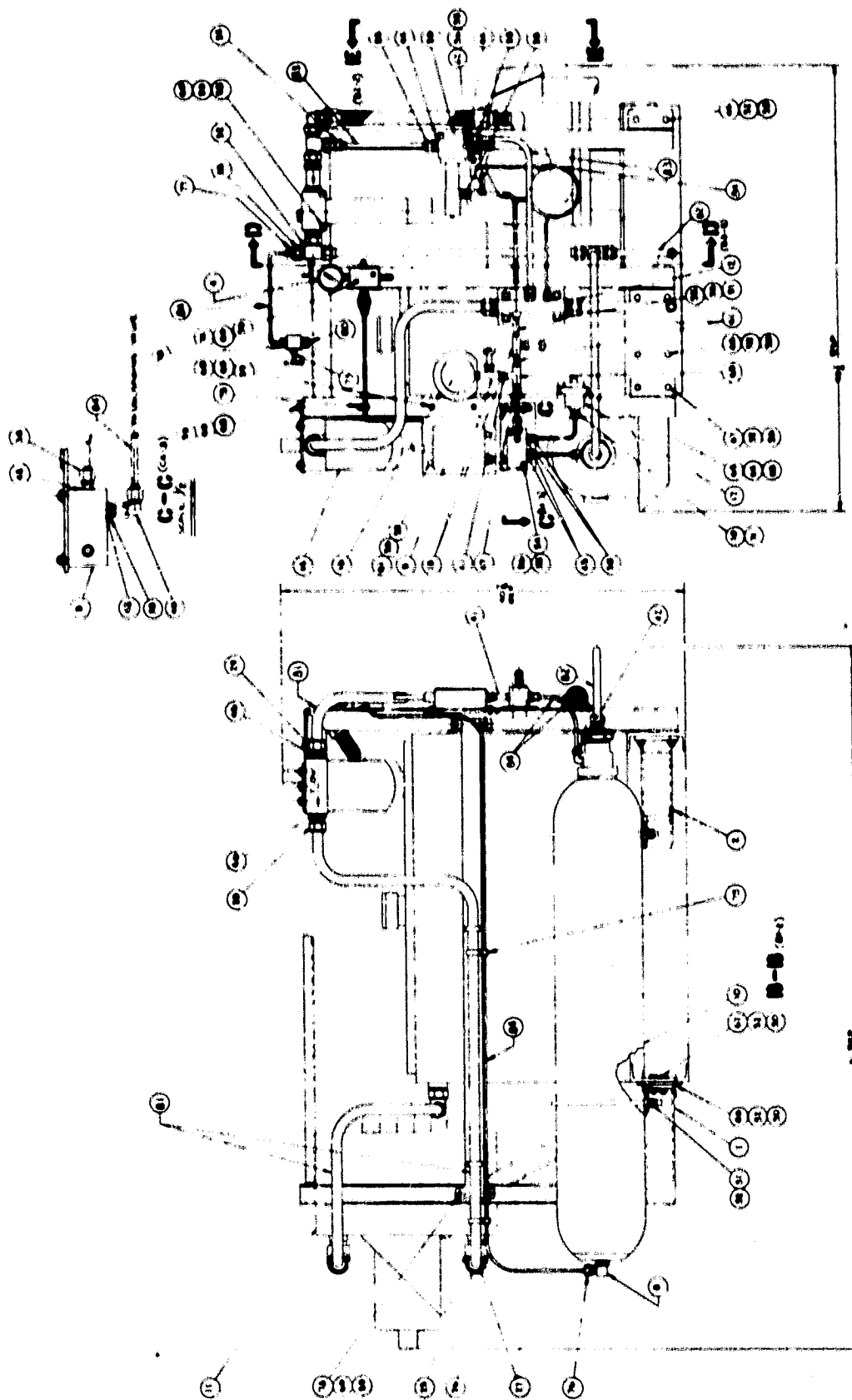
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GROUP NO.	PART NO.
	1015P5250

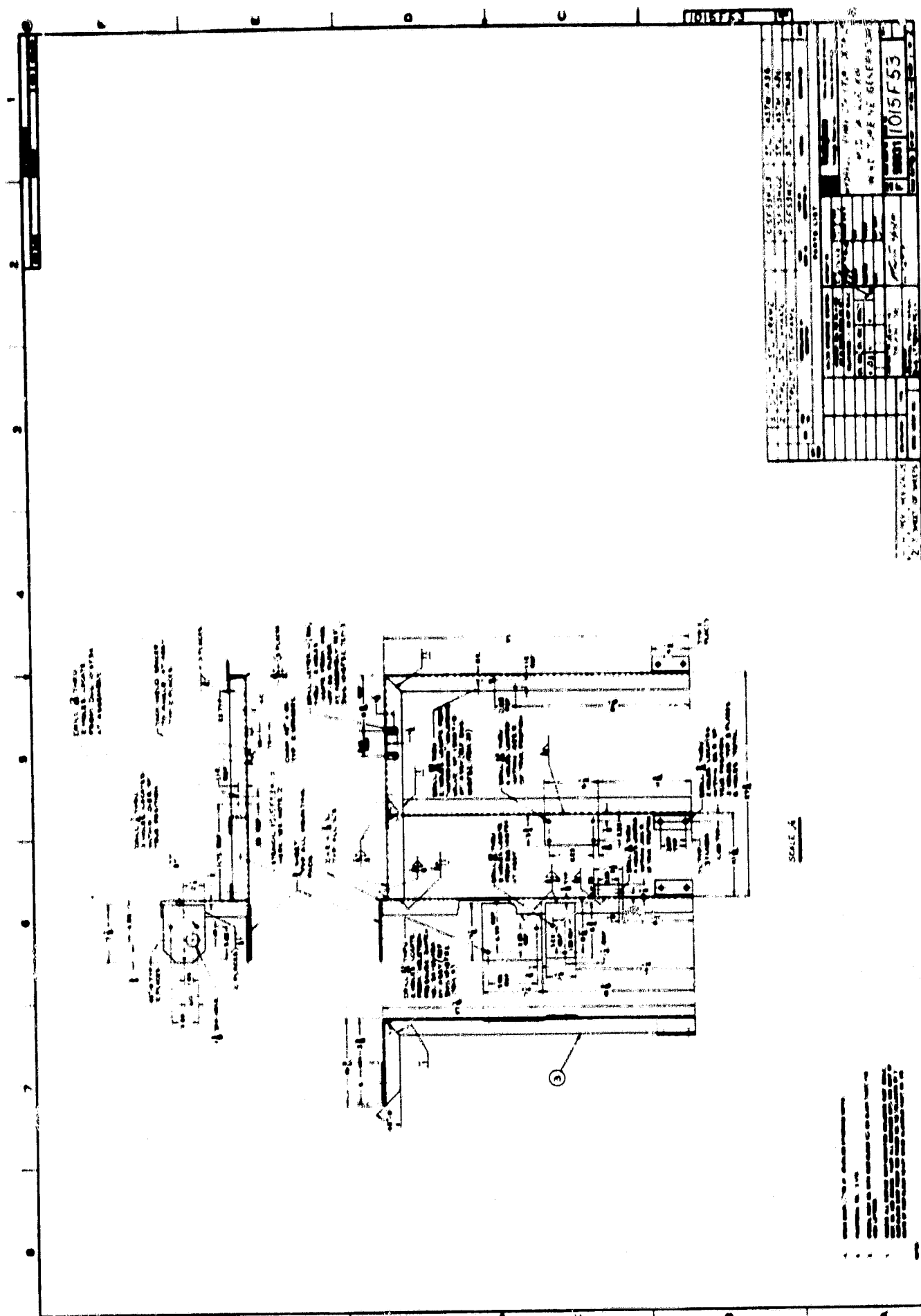
SOLVING THE PROBLEM, GIVE
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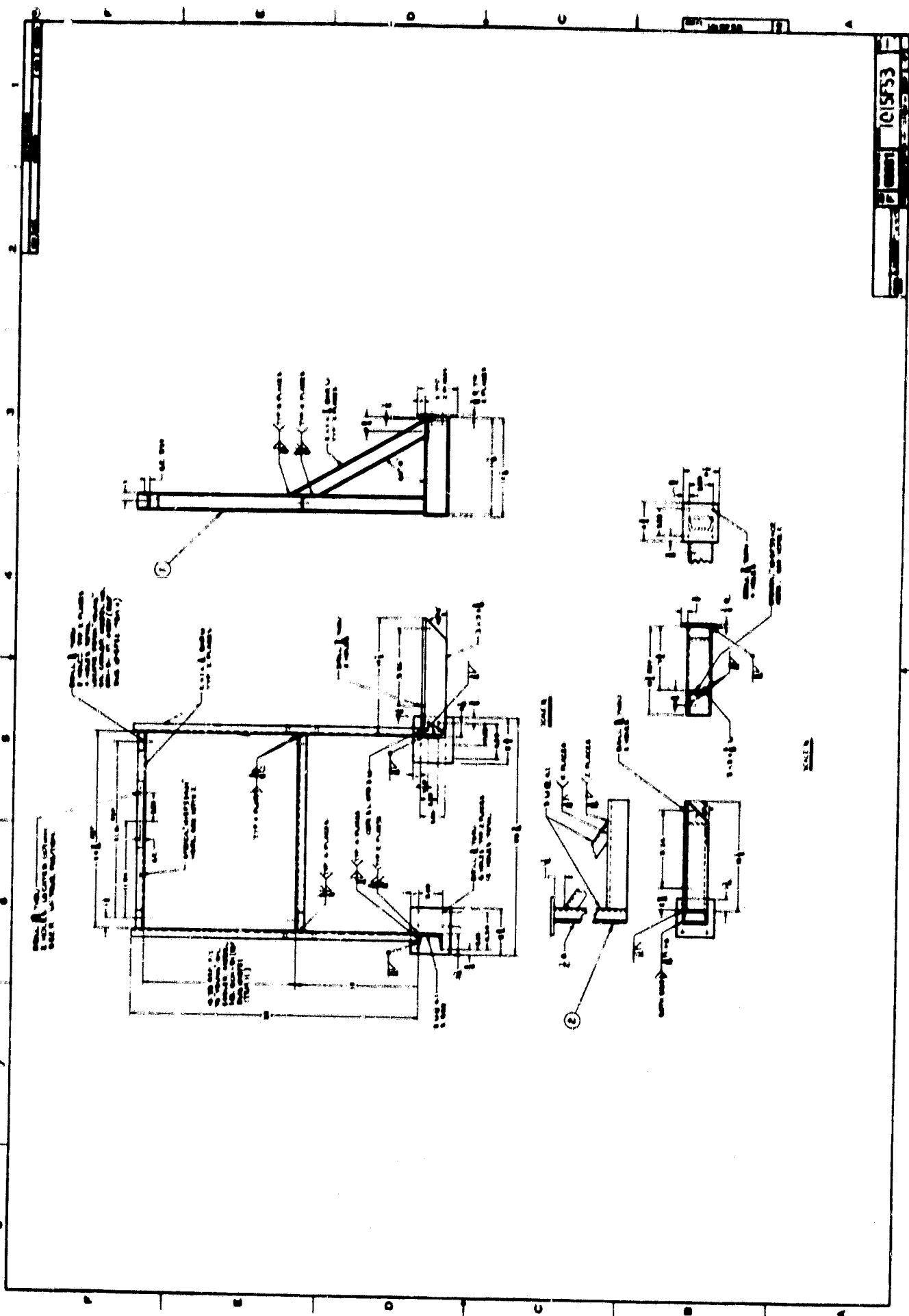
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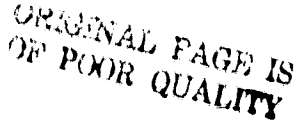




GENERAL NOTES	
1. ALL DIMENSIONS ARE IN FEET AND INCHES.	
2. FINISHES ARE TO BE DETERMINED BY THE ARCHITECT.	
3. MATERIALS ARE TO BE OF THE BEST QUALITY AVAILABLE.	
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.	
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.	
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES.	
7. THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT ALL TIMES.	
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL DEBRIS AND WASTE.	
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INSURANCE.	
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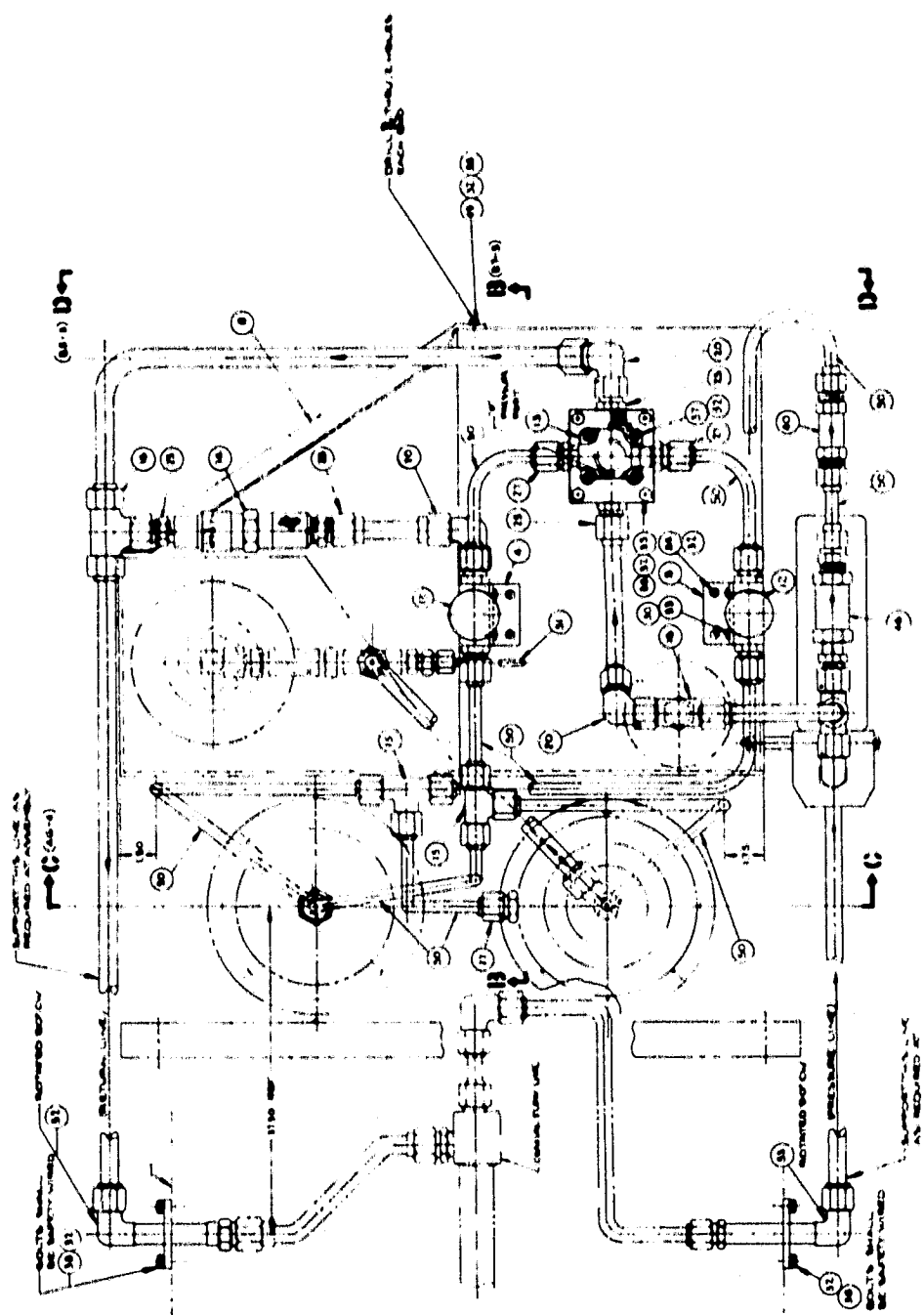
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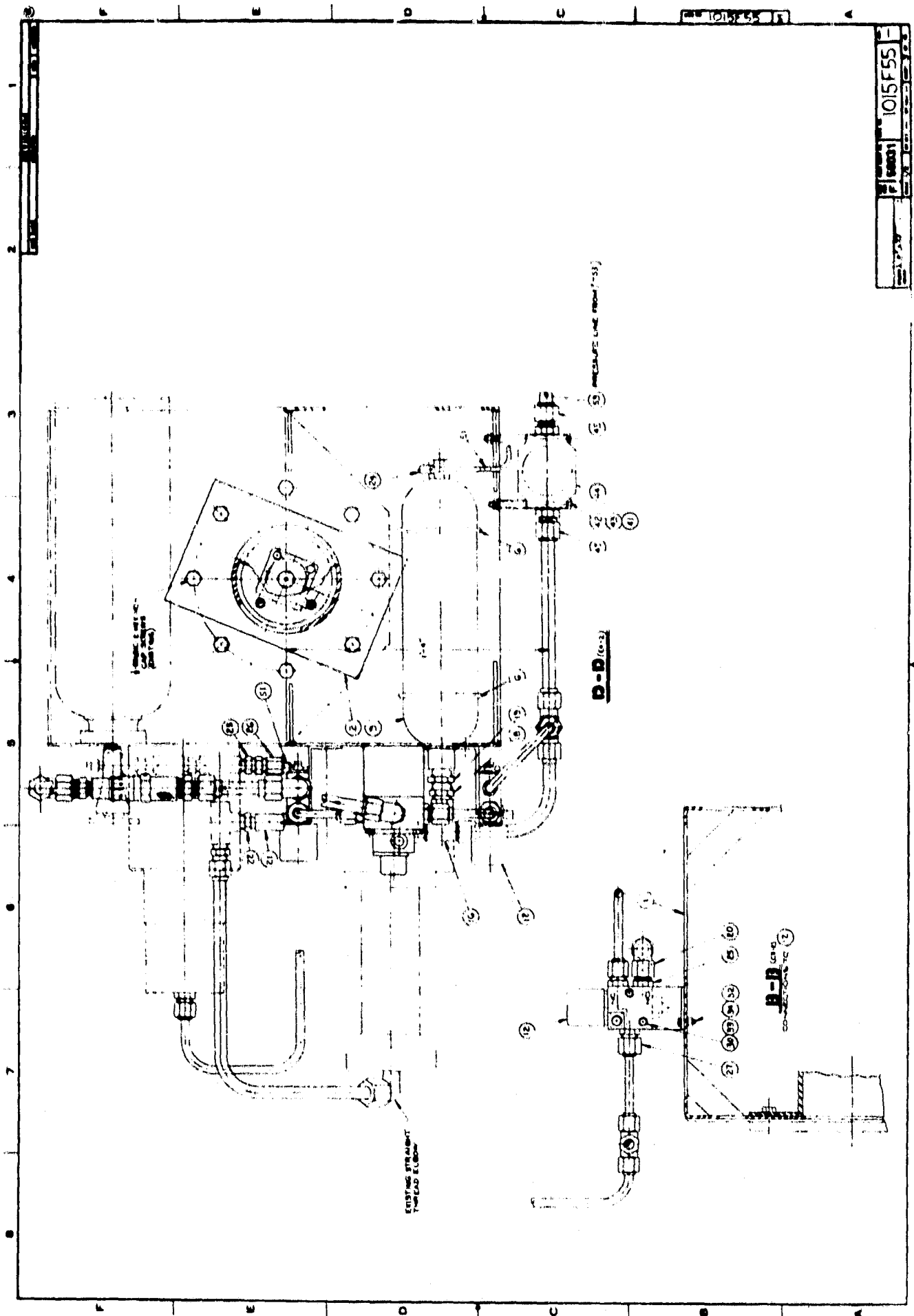


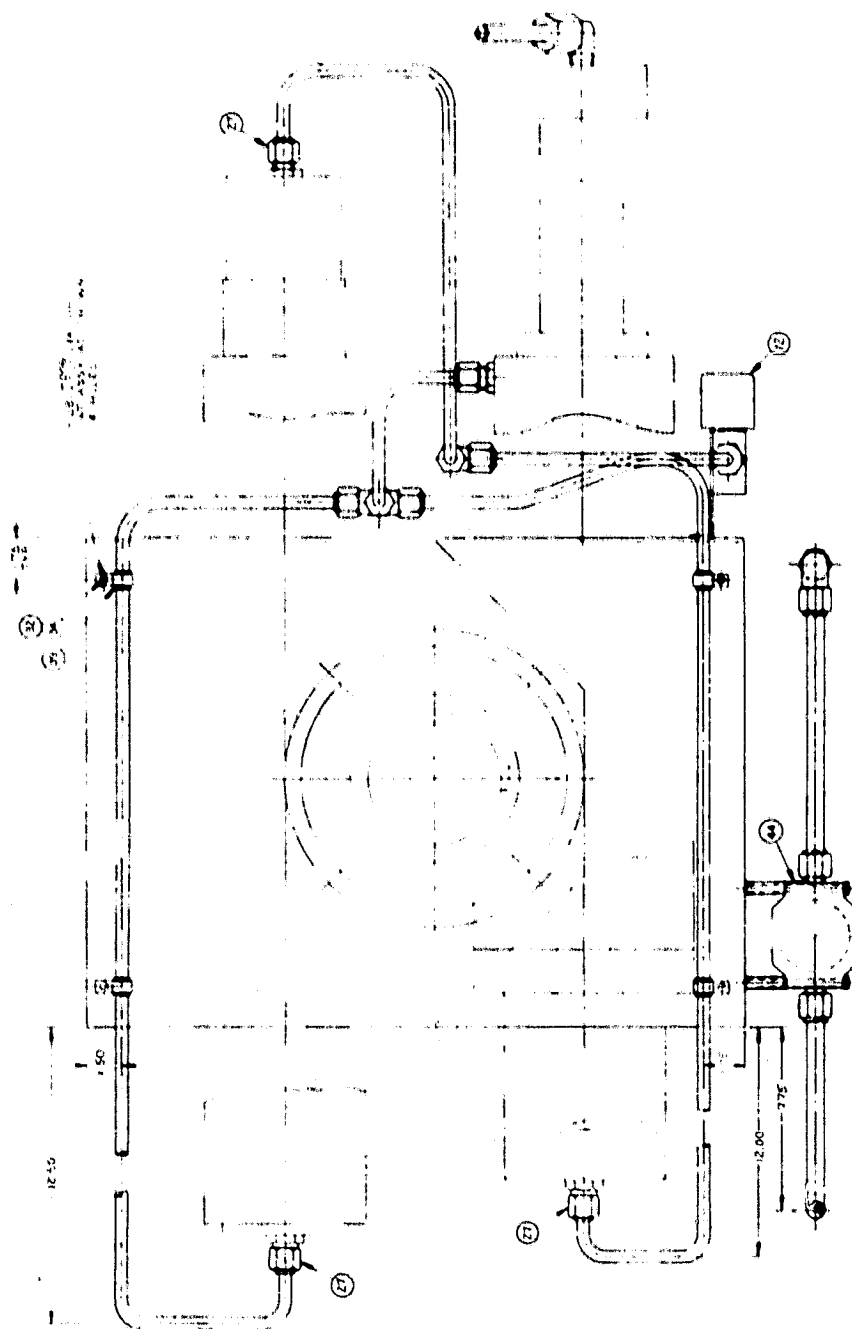
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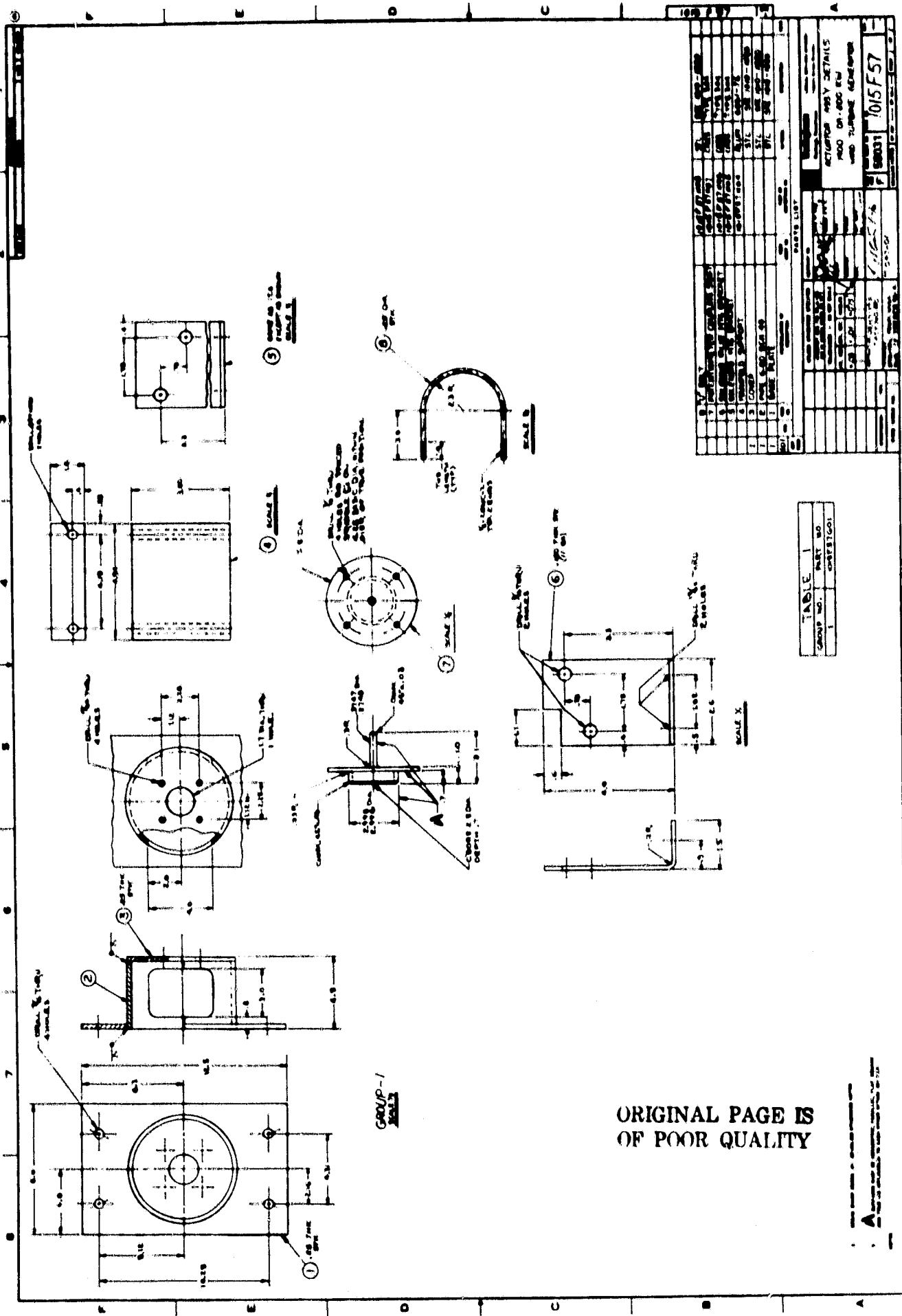
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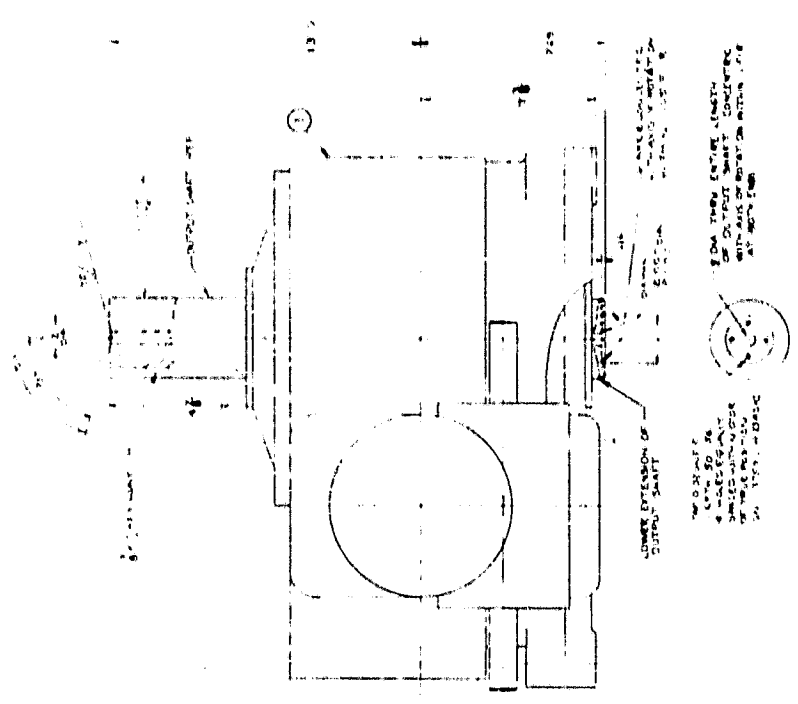


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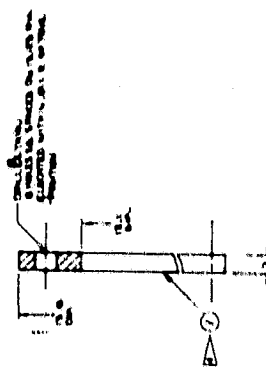


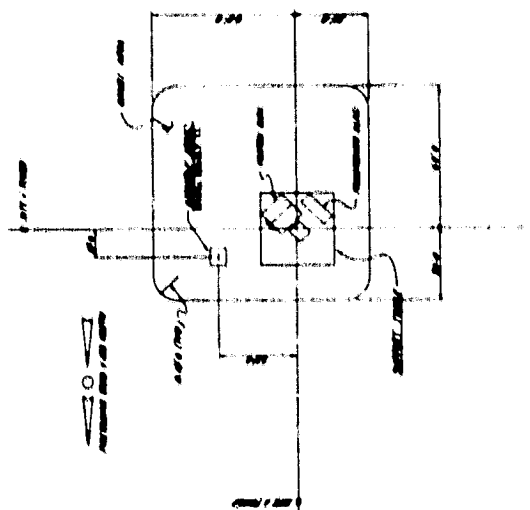
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NO.	DESCRIPTION	DATE	BY
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TABLE 1	
GROUP NO.	PART NO.
1	1015F57



GEAR UNIT		PARTS LIST	
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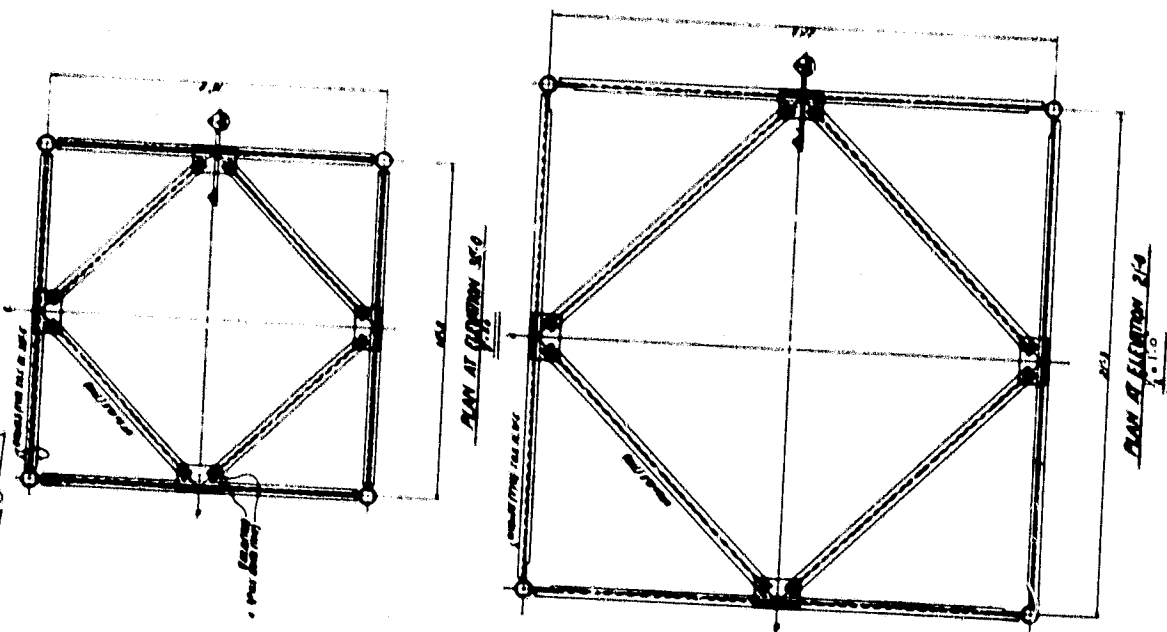
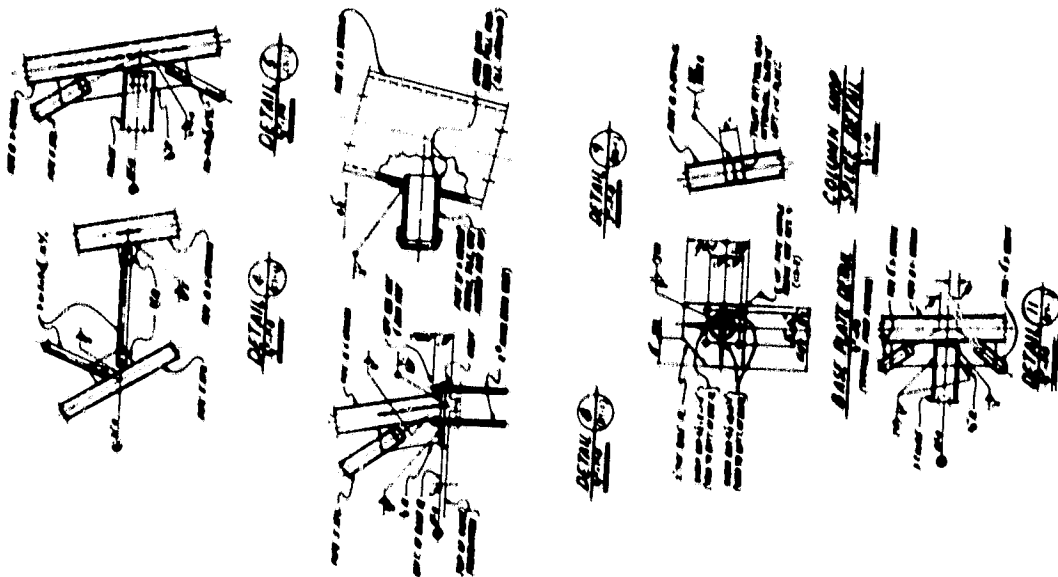
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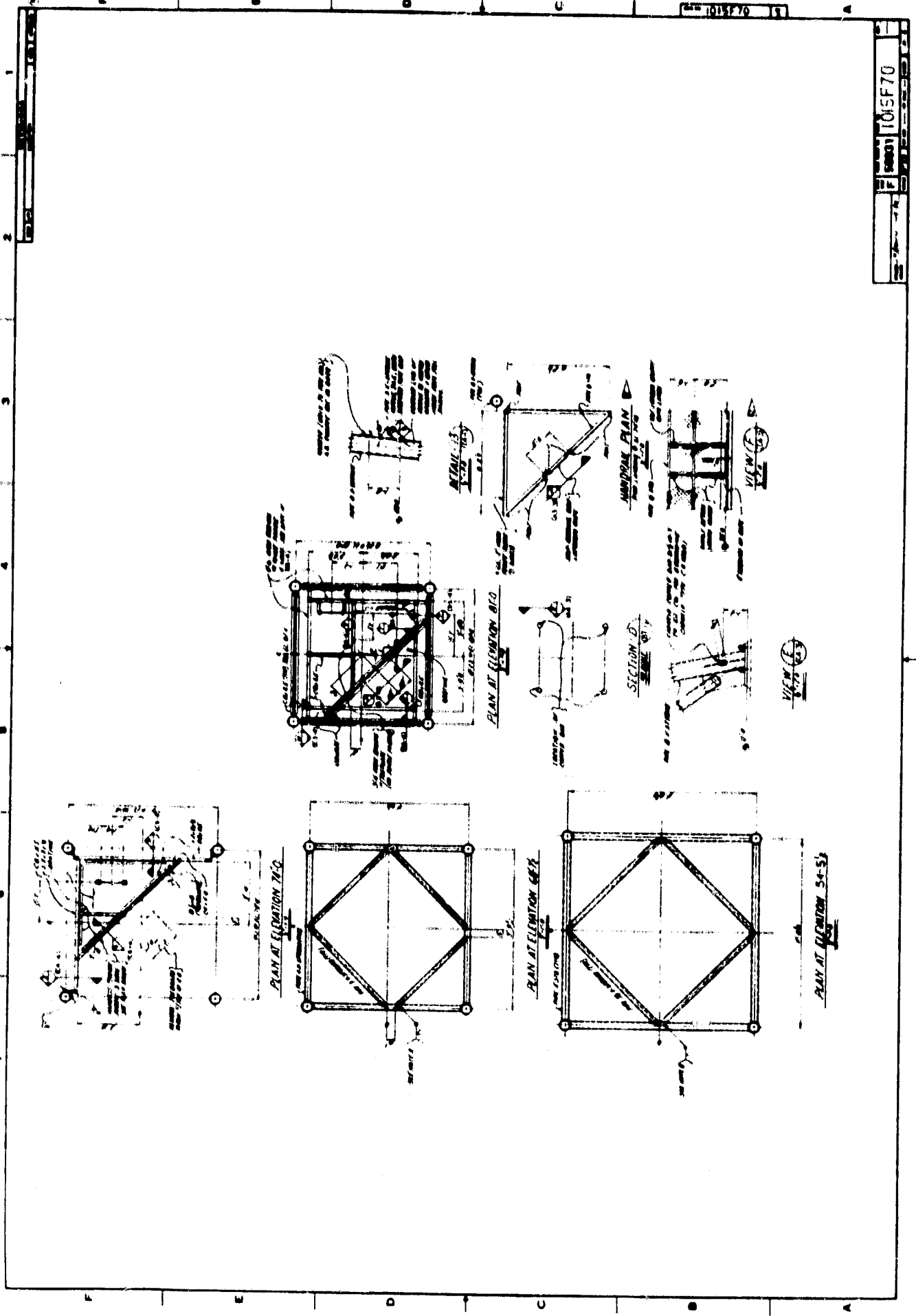


SITE PLAN

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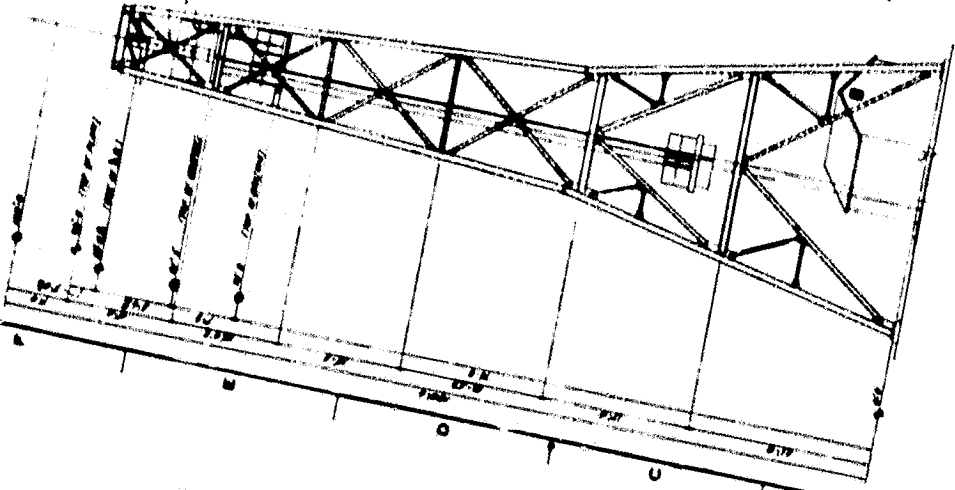
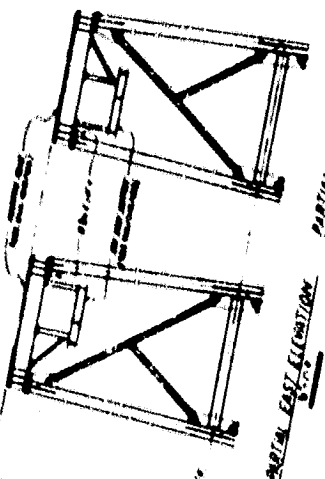
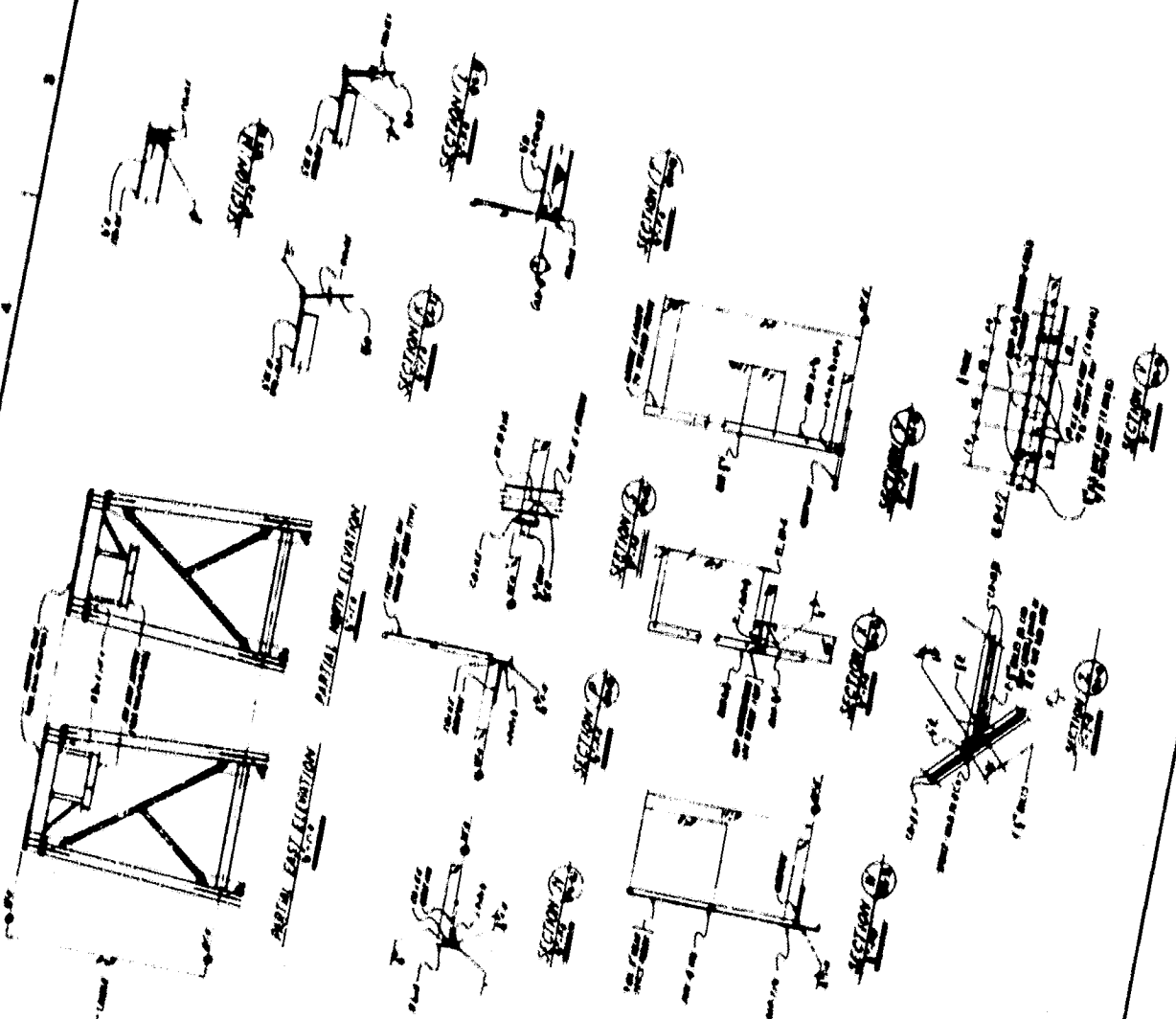
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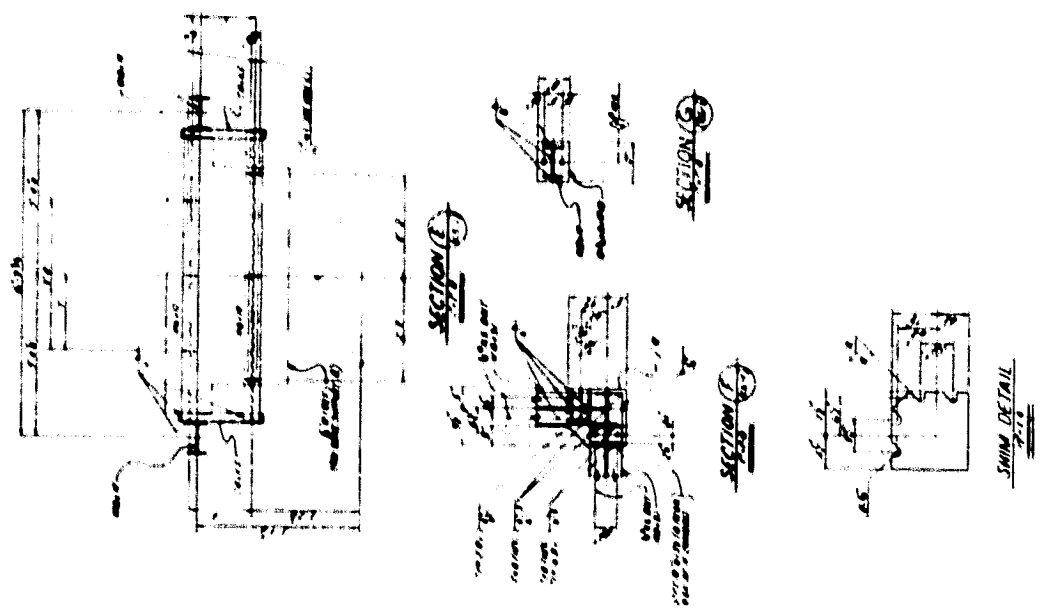


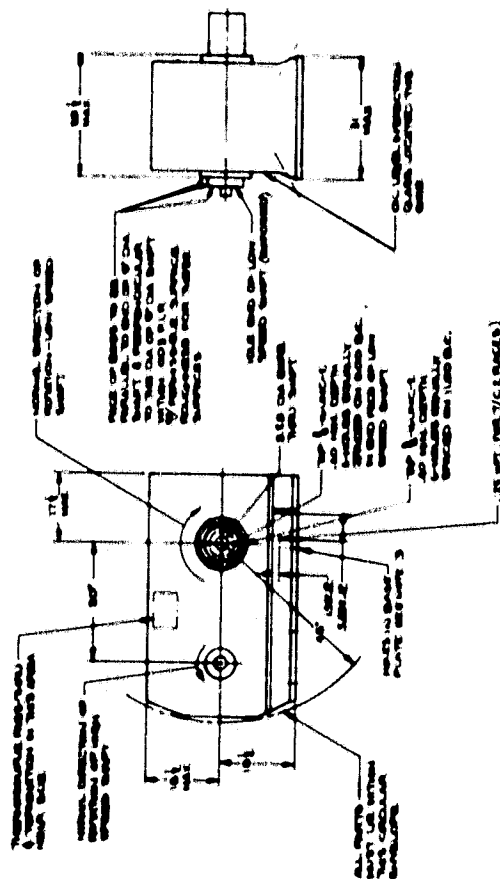


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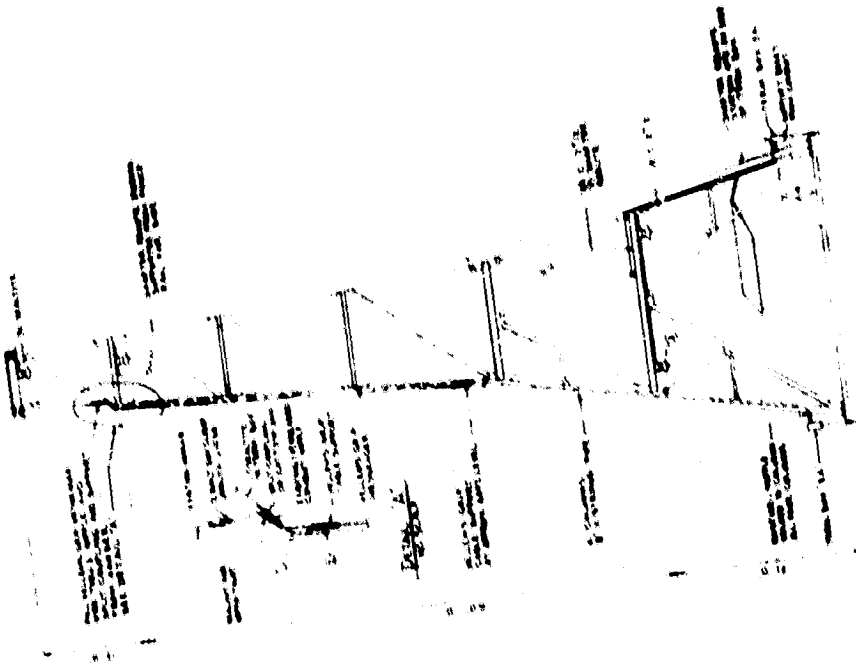




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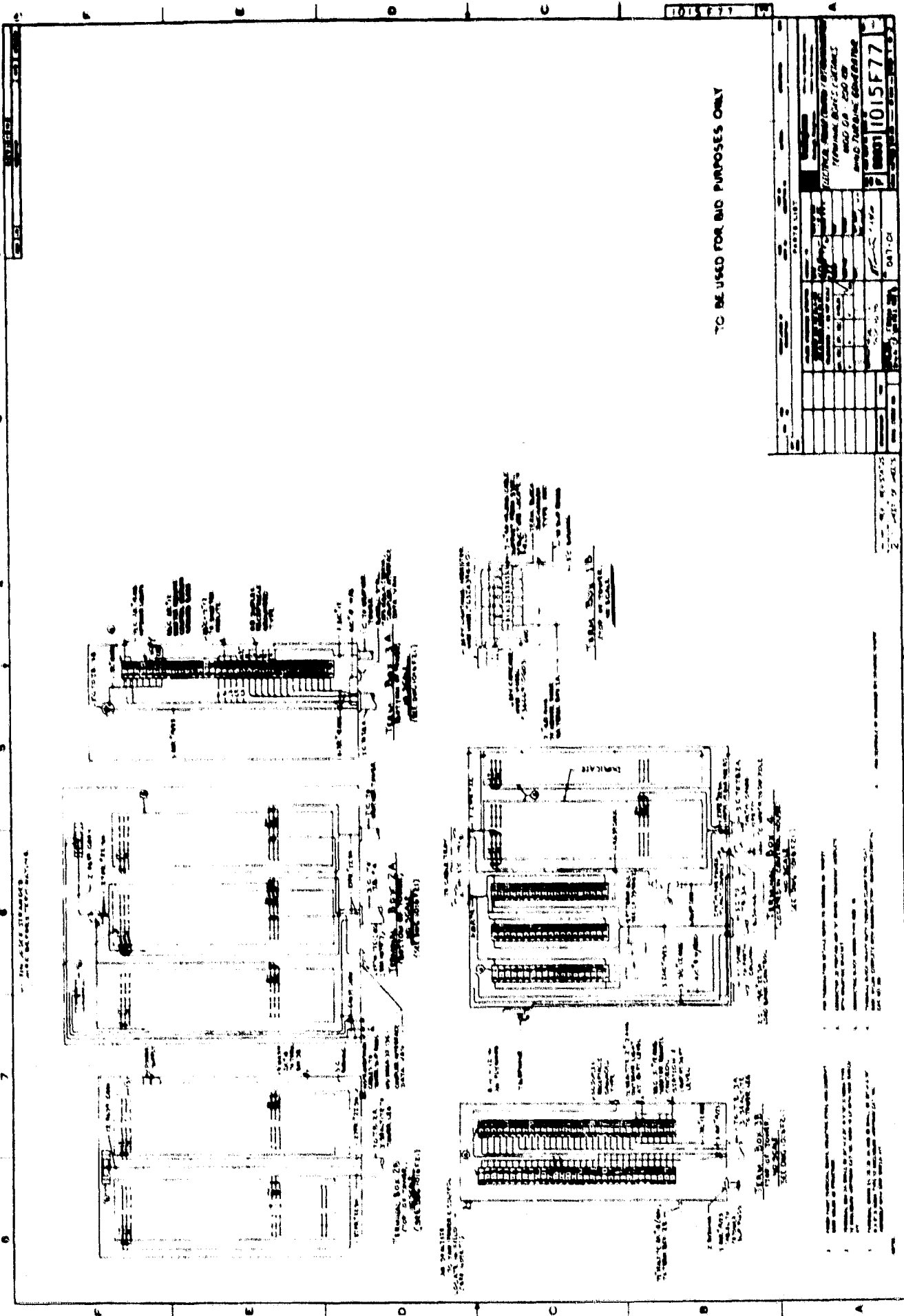


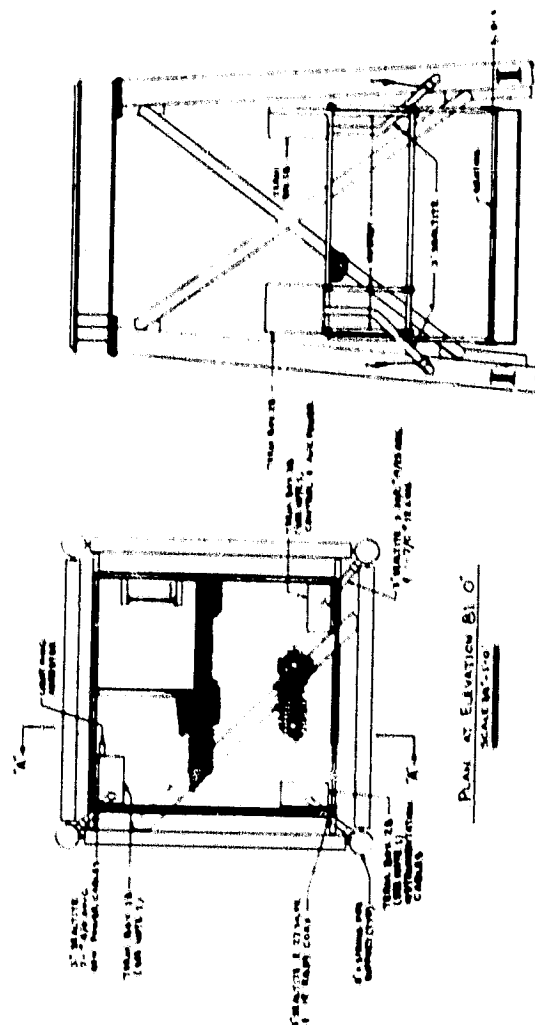
200XN W/8 TYPING SUPPORT STRUCTURE
SCALE 1/4" = 1'-0"



DETAIL B
SCALE 1/4" = 1'-0"

ORIGINAL PAGE IS
OF POOR QUALITY

[illegible]



PLAN OF EDUCATION B. I. O.
KARIM'S CO.

WATSON, J.

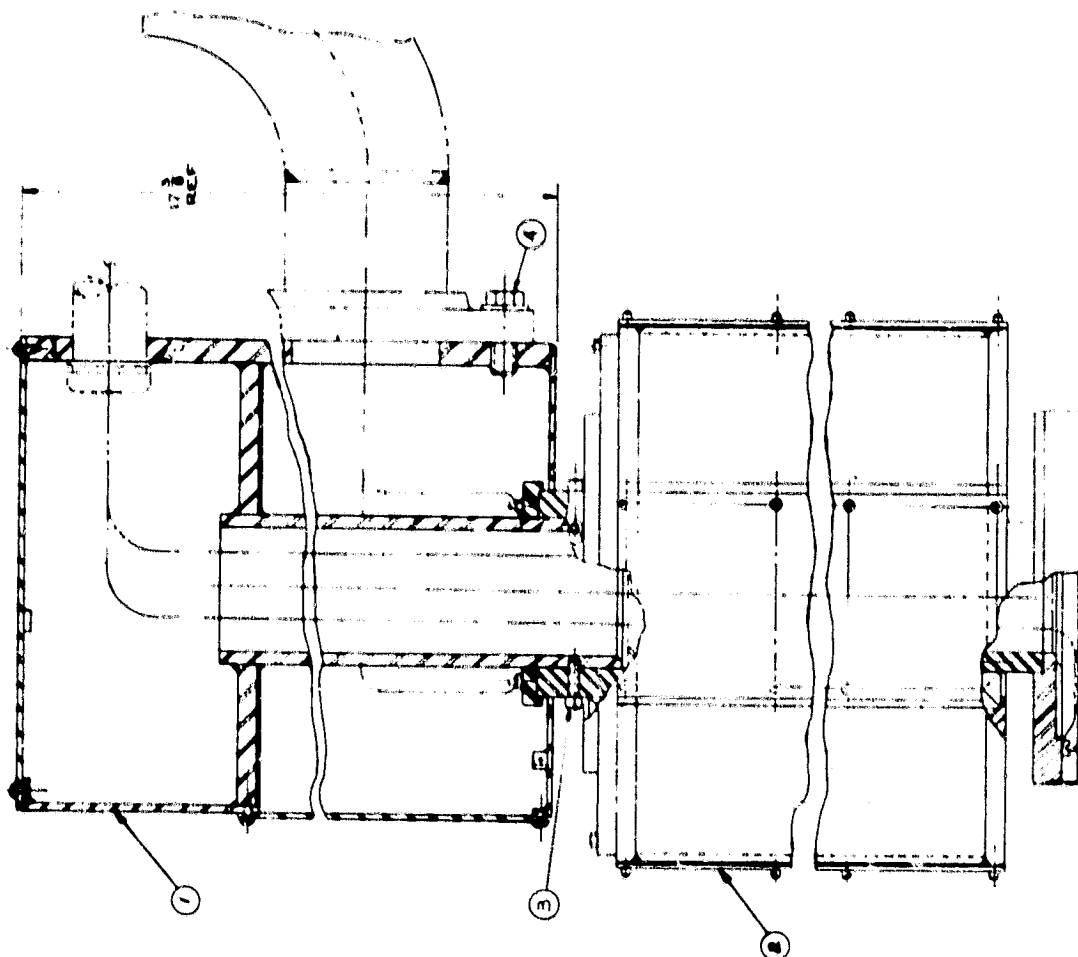


TABLE 1
CAGE P NO. 1058 310

TERMINALS FOR BA
MOTOR CIRCUITS

1. WINDING
2. TERMINAL BLOCK
3. MOTOR HOUSING
4. MOTOR SHAFT

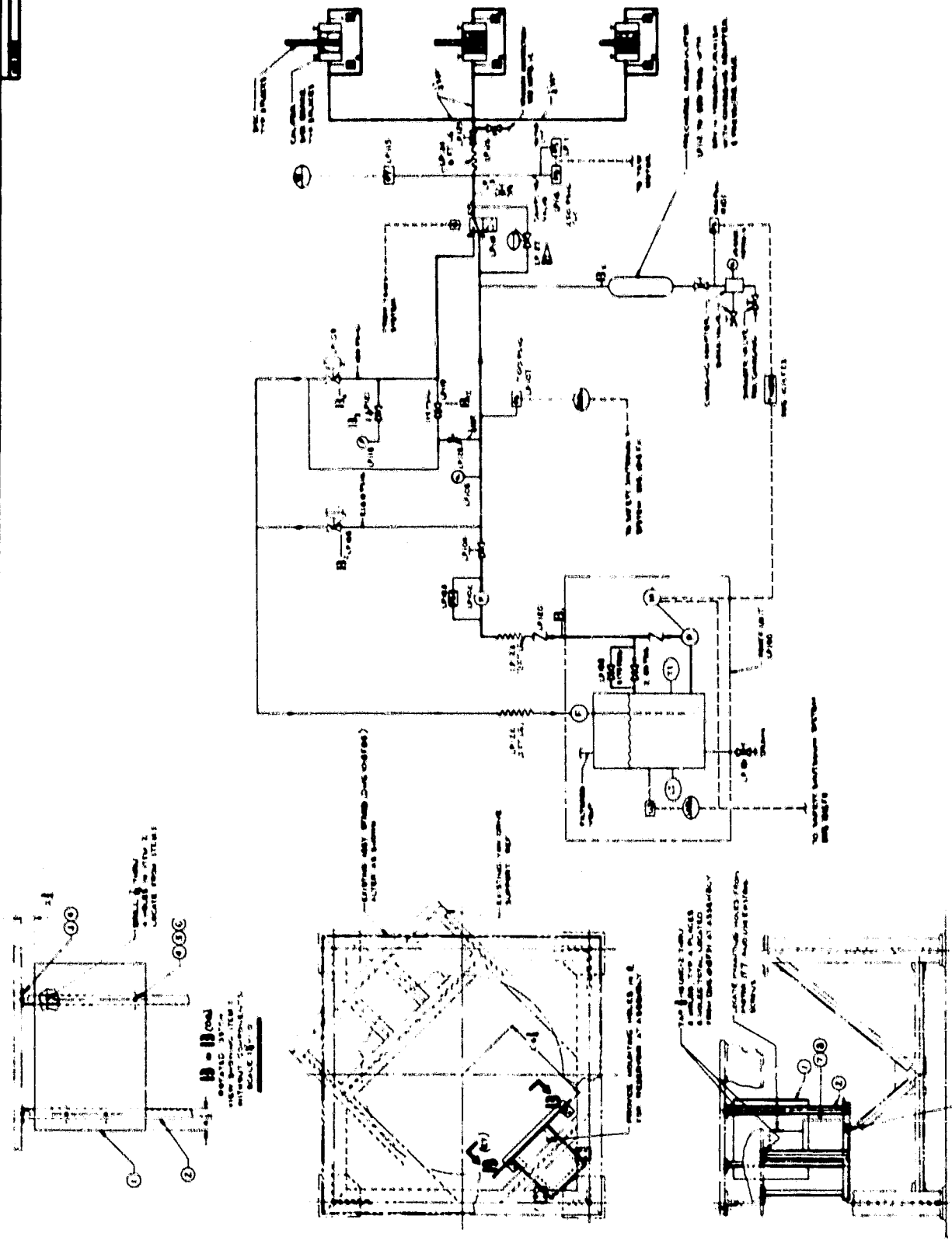
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1058 310

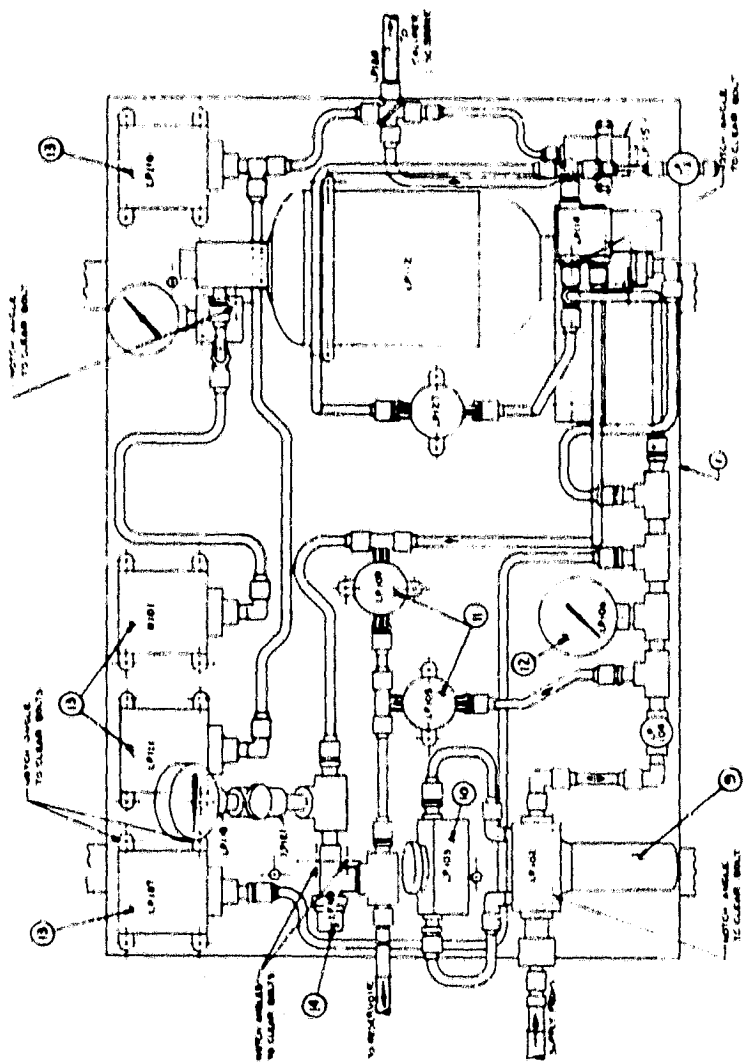
1	THE UNITED STATES OF AMERICA
2	DO hereby certify that
3	the following is a true and correct copy of the
4	original as the same appears in the records of the
5	Department of the Interior, Bureau of Land Management,
6	Washington, D. C.
7	Witness my hand and the seal of the Department of the Interior,
8	this 1st day of January, 1900.
9	Secretary of the Interior.
10	By _____
11	Assistant Secretary of the Interior.
12	Approved: _____
13	Special Agent in Charge.
14	Department of the Interior, Bureau of Land Management,
15	Washington, D. C.
16	FILED FOR RECORD IN THE
17	OFFICE OF THE SECRETARY OF THE INTERIOR
18	THIS 1st DAY OF JANUARY, 1900.
19	RECORDED
20	INDEXED
21	FILED
22	DEPARTMENT OF THE INTERIOR
23	BUREAU OF LAND MANAGEMENT
24	WASHINGTON, D. C.
25	1900

TABLE 1	1
ON TYPED	AS DONE
REPORTS	

[illegible]

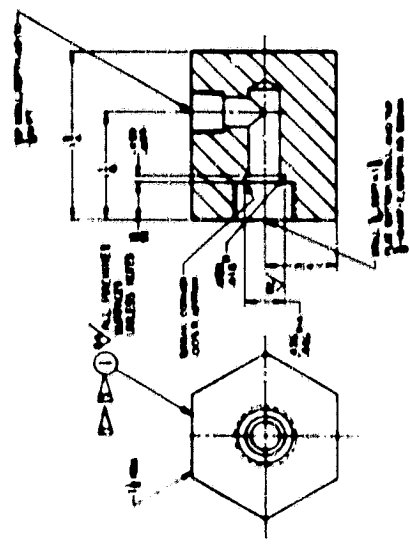


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JAN 10 1964

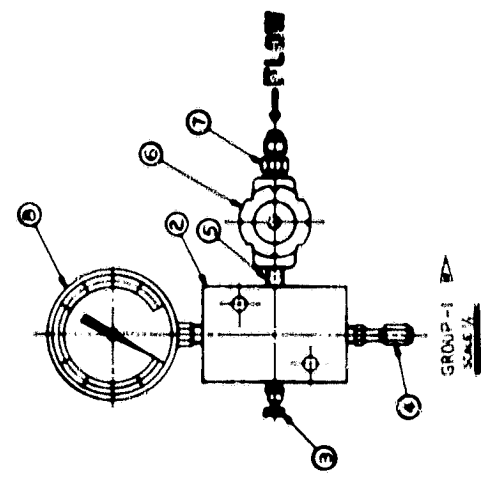


PANEL ASSEMBLY
SCALE 1/8"

1 2 3 4 5 6 7 8



SCALE 1/2"

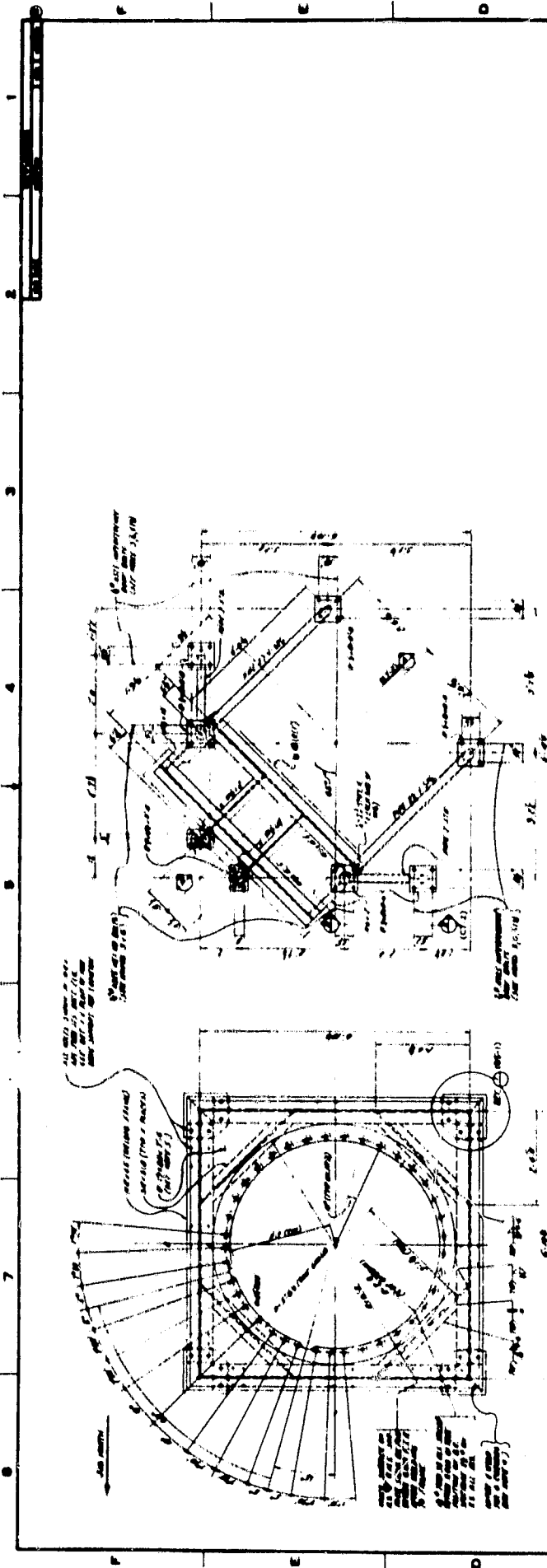


GROUP-1
SCALE 1/2"

1. The pump is designed to operate at a pressure of 100 psi.
2. The pump is designed to operate at a flow rate of 10 gpm.
3. The pump is designed to operate at a temperature of 100°F.
4. The pump is designed to operate at a vibration level of 10 mm/s.
5. The pump is designed to operate at a noise level of 10 dBA.

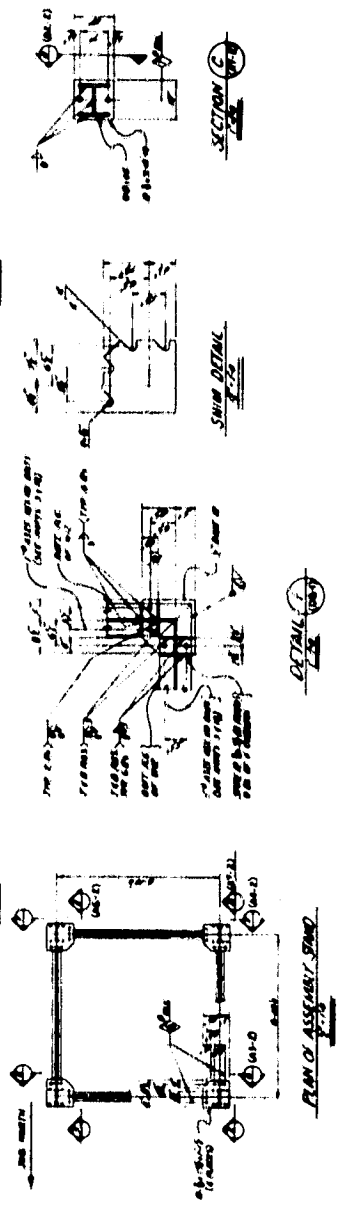
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3	1	CAST IRON PUMP BASE	EA	100.00	100.00
4	1	CAST IRON PUMP COVER	EA	100.00	100.00
5	1	CAST IRON PUMP VALVE	EA	100.00	100.00
6	1	CAST IRON PUMP PISTON	EA	100.00	100.00
7	1	CAST IRON PUMP RING	EA	100.00	100.00
8	1	CAST IRON PUMP ROD	EA	100.00	100.00
9	1	CAST IRON PUMP PIN	EA	100.00	100.00
10	1	CAST IRON PUMP SCREW	EA	100.00	100.00
11	1	CAST IRON PUMP NUT	EA	100.00	100.00
12	1	CAST IRON PUMP WASHER	EA	100.00	100.00
13	1	CAST IRON PUMP GASKET	EA	100.00	100.00
14	1	CAST IRON PUMP O-RING	EA	100.00	100.00
15	1	CAST IRON PUMP SEAL	EA	100.00	100.00
16	1	CAST IRON PUMP LUBRICANT	EA	100.00	100.00
17	1	CAST IRON PUMP FILTER	EA	100.00	100.00
18	1	CAST IRON PUMP HOSE	EA	100.00	100.00
19	1	CAST IRON PUMP FITTING	EA	100.00	100.00
20	1	CAST IRON PUMP CONNECTOR	EA	100.00	100.00
21	1	CAST IRON PUMP ADAPTER	EA	100.00	100.00
22	1	CAST IRON PUMP BRACKET	EA	100.00	100.00
23	1	CAST IRON PUMP MOUNTING	EA	100.00	100.00
24	1	CAST IRON PUMP SUPPORT	EA	100.00	100.00
25	1	CAST IRON PUMP FRAME	EA	100.00	100.00
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27	1	CAST IRON PUMP ACCESSORY	EA	100.00	100.00
28	1	CAST IRON PUMP TOOL	EA	100.00	100.00
29	1	CAST IRON PUMP PART	EA	100.00	100.00
30	1	CAST IRON PUMP COMPONENT	EA	100.00	100.00
31	1	CAST IRON PUMP ASSEMBLY	EA	100.00	100.00
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41	1	CAST IRON PUMP CLASS	EA	100.00	100.00
42	1	CAST IRON PUMP ORDER	EA	100.00	100.00
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52	1	CAST IRON PUMP MARK	EA	100.00	100.00
53	1	CAST IRON PUMP SYMBOL	EA	100.00	100.00
54	1	CAST IRON PUMP IMAGE	EA	100.00	100.00
55	1	CAST IRON PUMP PHOTO	EA	100.00	100.00
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85	1	CAST IRON PUMP REPLICATION	EA	100.00	100.00
86	1	CAST IRON PUMP REPRODUCTION	EA	100.00	100.00
87	1	CAST IRON PUMP REPLICATION	EA	100.00	100.00
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99	1	CAST IRON PUMP REPLICATION	EA	100.00	100.00
100	1	CAST IRON PUMP REPRODUCTION	EA	100.00	100.00



PLAN OF THE DRIVE SUPPORT
 1/2" = 1'-0"

PLAN OF MOUNTING FRAME
 1/2" = 1'-0"

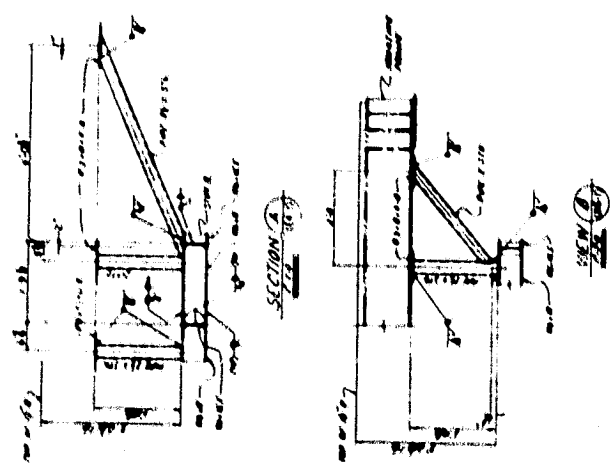
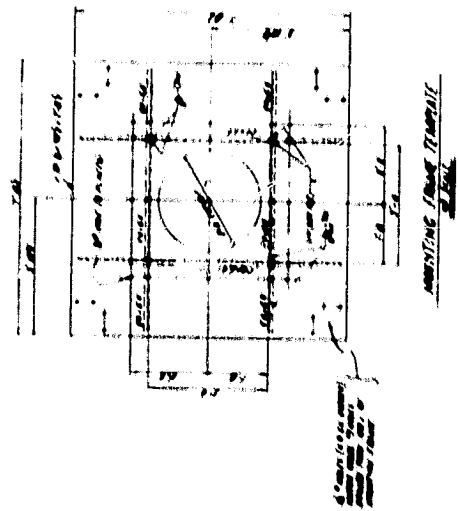
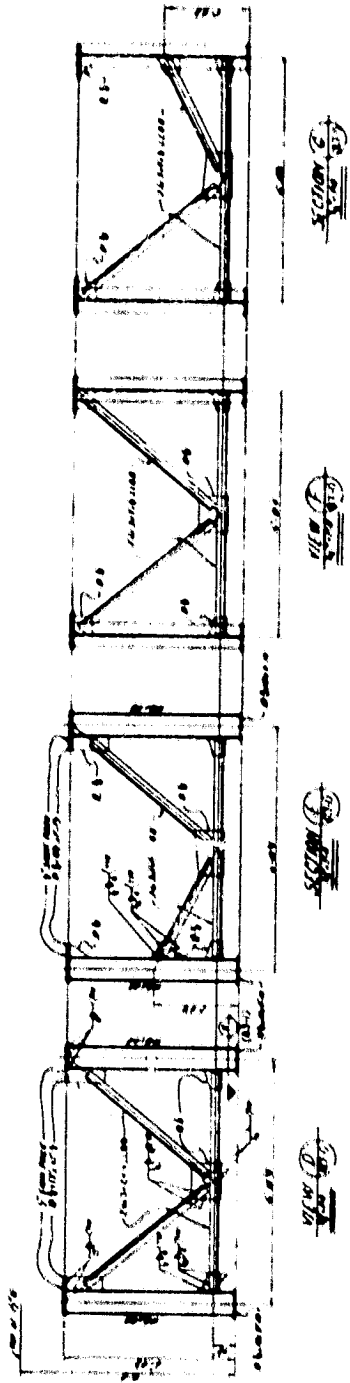


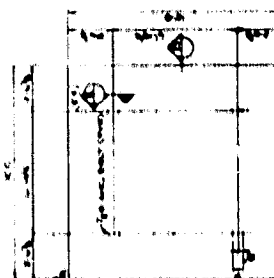
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APPROVED		J. L. BROWN	
TITLE		ASST. STND. PLAN & DETAILS	
SUBTITLE		ON - DRIVE	
DESCRIPTION		ON - DRIVE	
REVISIONS		REV. 01	
REVISIONS		REV. 02	
REVISIONS		REV. 03	
REVISIONS		REV. 04	
REVISIONS		REV. 05	
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REVISIONS		REV. 07	
REVISIONS		REV. 08	
REVISIONS		REV. 09	
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REVISIONS		REV. 23	
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REVISIONS		REV. 26	
REVISIONS		REV. 27	
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REVISIONS		REV. 96	
REVISIONS		REV. 97	
REVISIONS		REV. 98	
REVISIONS		REV. 99	
REVISIONS		REV. 100	

1. ALL METAL SURFACES TO BE GALVANNEALIZED.
 2. ALL BOLTS AND NUTS TO BE 304 STAINLESS STEEL.
 3. ALL WELDS TO BE 304 STAINLESS STEEL.
 4. ALL DIMENSIONS TO BE IN INCHES.
 5. ALL TOLERANCES TO BE ± 0.005 INCHES.
 6. ALL SURFACES TO BE FINISHED TO A 32 RMS FINISH.
 7. ALL PARTS TO BE IDENTIFIED BY A PERMANENT MARKING SYSTEM.
 8. ALL PARTS TO BE SUPPLIED WITH A CERTIFICATE OF CONFORMANCE.
 9. ALL PARTS TO BE SUPPLIED WITH A MATERIAL CERTIFICATE.
 10. ALL PARTS TO BE SUPPLIED WITH A QUALITY INSPECTION REPORT.

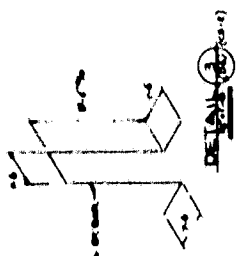
58 J5101 1000

1015F85

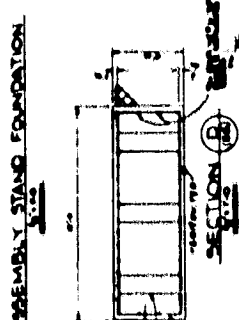




SECTION 54



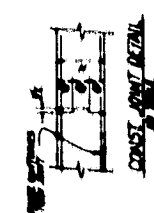
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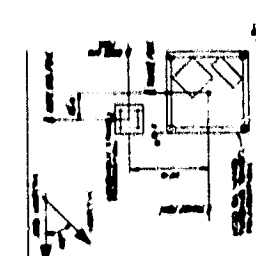
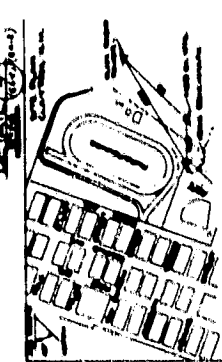
⑤



DEAL 4
(547) (6-6-8)

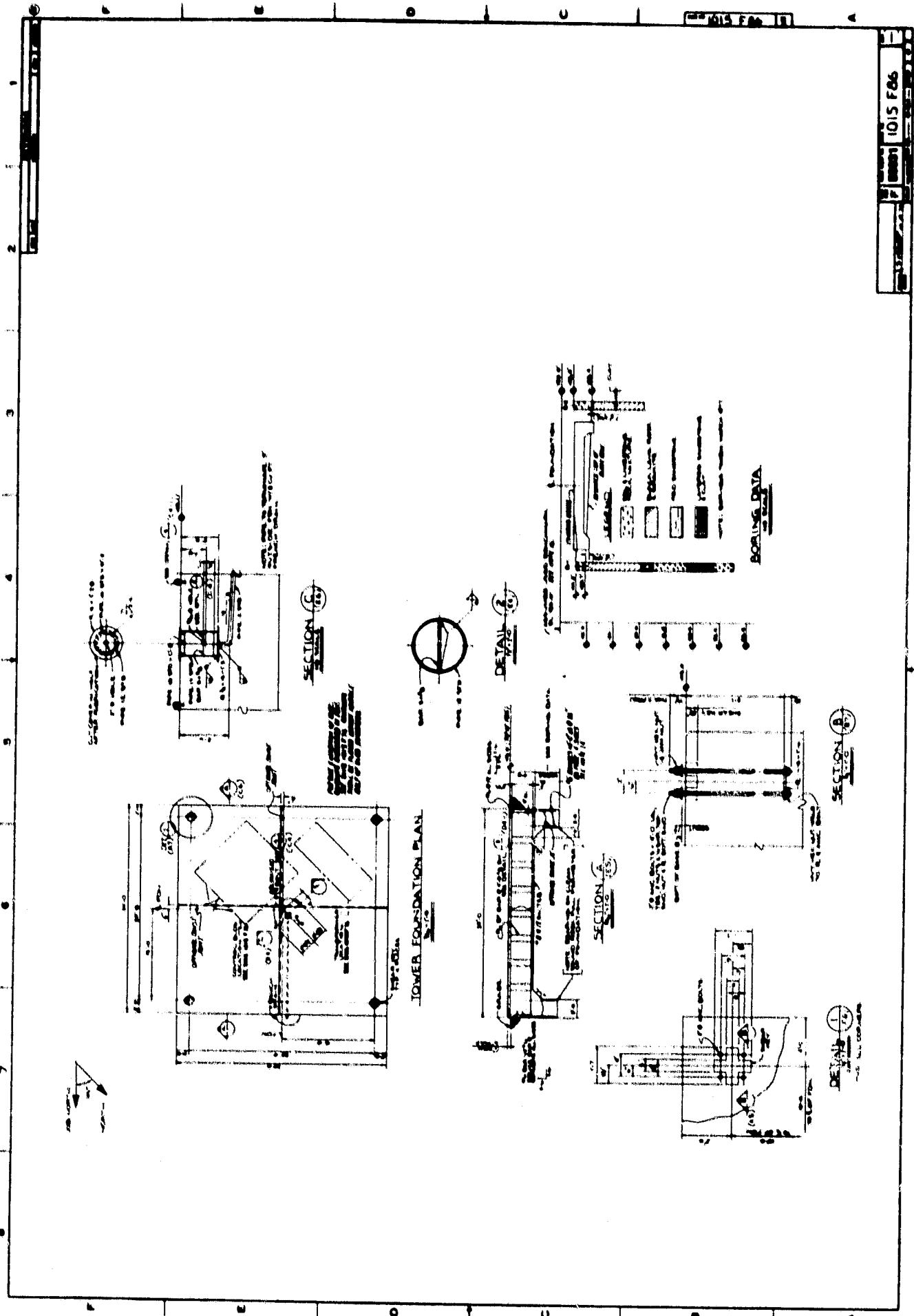


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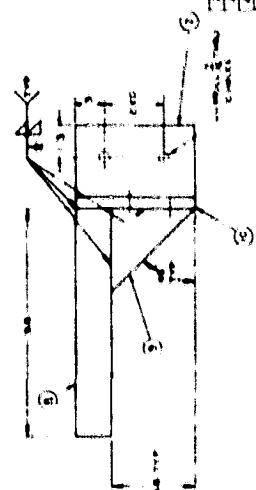
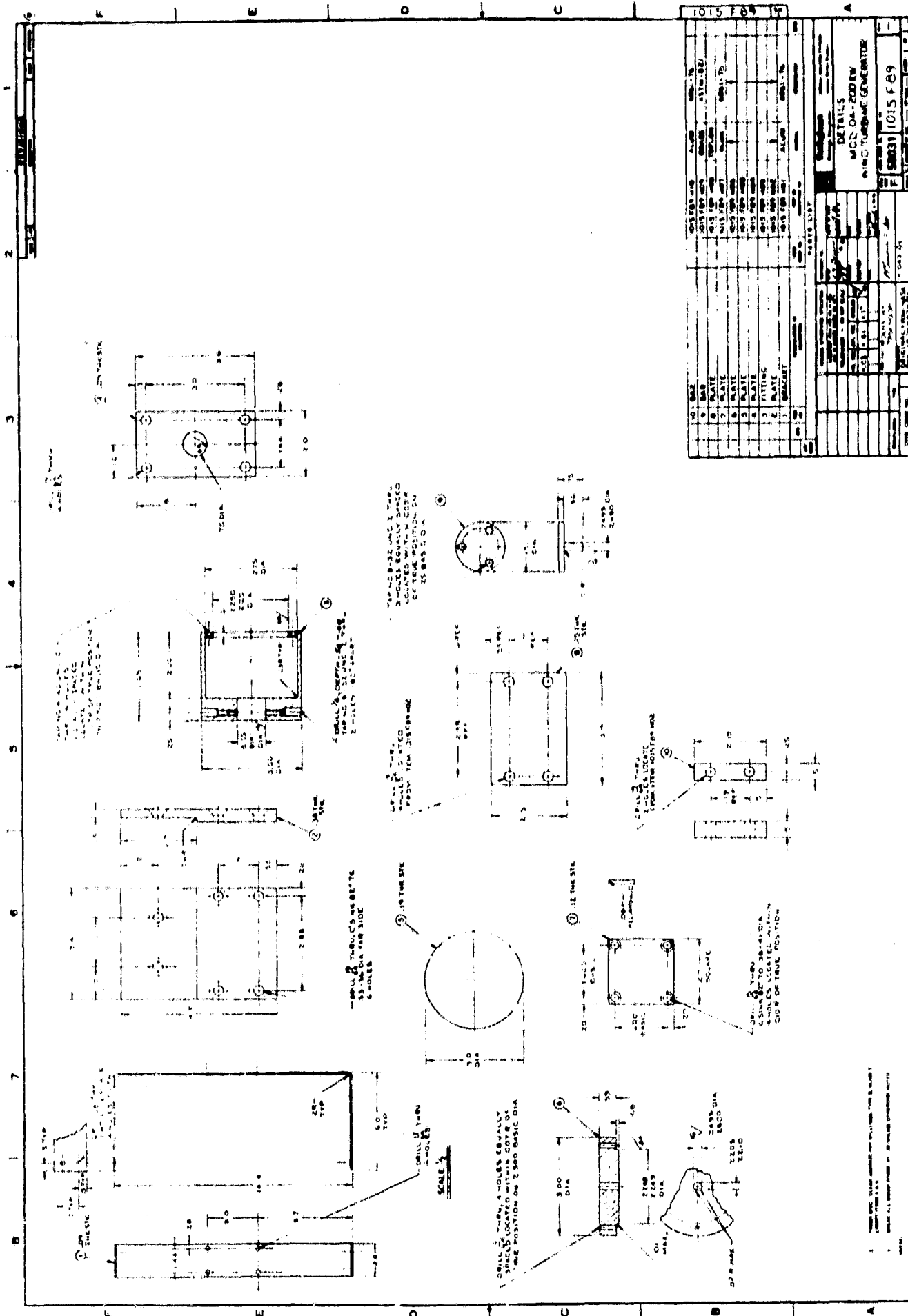
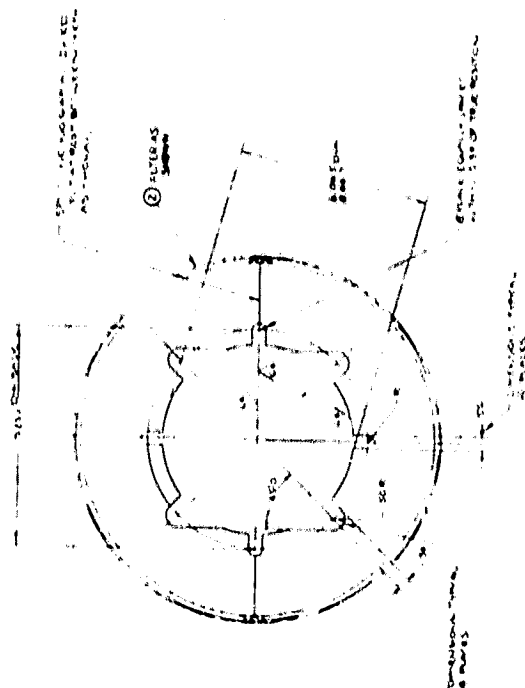


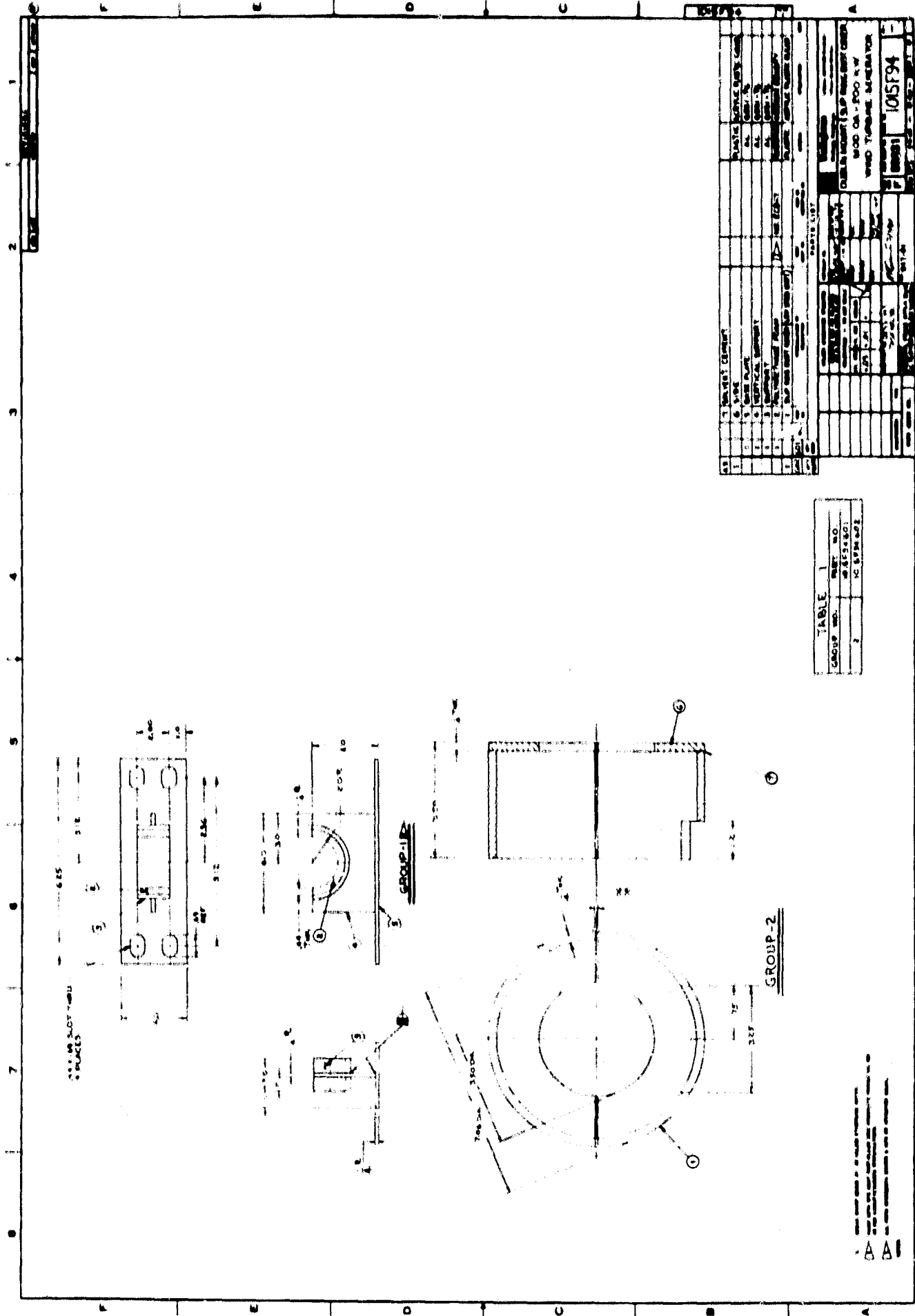
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• A A A A



GROUP NO.	TABLE NO.	REV. NO.	DATE	BY	CHKD.
1	1	1	10/15/94		

ITEM NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	1/2" DIA. BOLT	1	PC	
2	1/2" DIA. BOLT	1	PC	
3	1/2" DIA. BOLT	1	PC	
4	1/2" DIA. BOLT	1	PC	
5	1/2" DIA. BOLT	1	PC	
6	1/2" DIA. BOLT	1	PC	
7	1/2" DIA. BOLT	1	PC	
8	1/2" DIA. BOLT	1	PC	
9	1/2" DIA. BOLT	1	PC	
10	1/2" DIA. BOLT	1	PC	
11	1/2" DIA. BOLT	1	PC	
12	1/2" DIA. BOLT	1	PC	
13	1/2" DIA. BOLT	1	PC	
14	1/2" DIA. BOLT	1	PC	
15	1/2" DIA. BOLT	1	PC	
16	1/2" DIA. BOLT	1	PC	
17	1/2" DIA. BOLT	1	PC	
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21	1/2" DIA. BOLT	1	PC	
22	1/2" DIA. BOLT	1	PC	
23	1/2" DIA. BOLT	1	PC	
24	1/2" DIA. BOLT	1	PC	
25	1/2" DIA. BOLT	1	PC	
26	1/2" DIA. BOLT	1	PC	
27	1/2" DIA. BOLT	1	PC	
28	1/2" DIA. BOLT	1	PC	
29	1/2" DIA. BOLT	1	PC	
30	1/2" DIA. BOLT	1	PC	
31	1/2" DIA. BOLT	1	PC	
32	1/2" DIA. BOLT	1	PC	
33	1/2" DIA. BOLT	1	PC	
34	1/2" DIA. BOLT	1	PC	
35	1/2" DIA. BOLT	1	PC	
36	1/2" DIA. BOLT	1	PC	
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60	1/2" DIA. BOLT	1	PC	
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98	1/2" DIA. BOLT	1	PC	
99	1/2" DIA. BOLT	1	PC	
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AA

1015145

DATE	10/15/45
TIME	10:15
BY	1015145
REMARKS	
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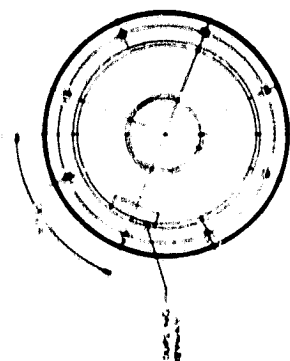
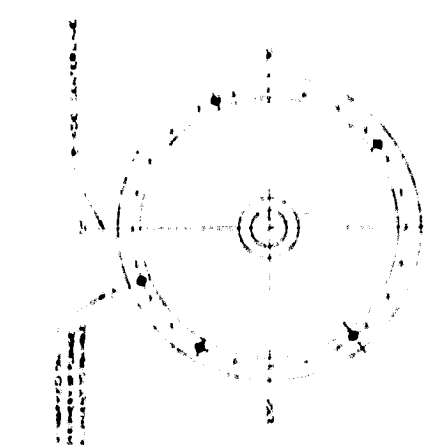
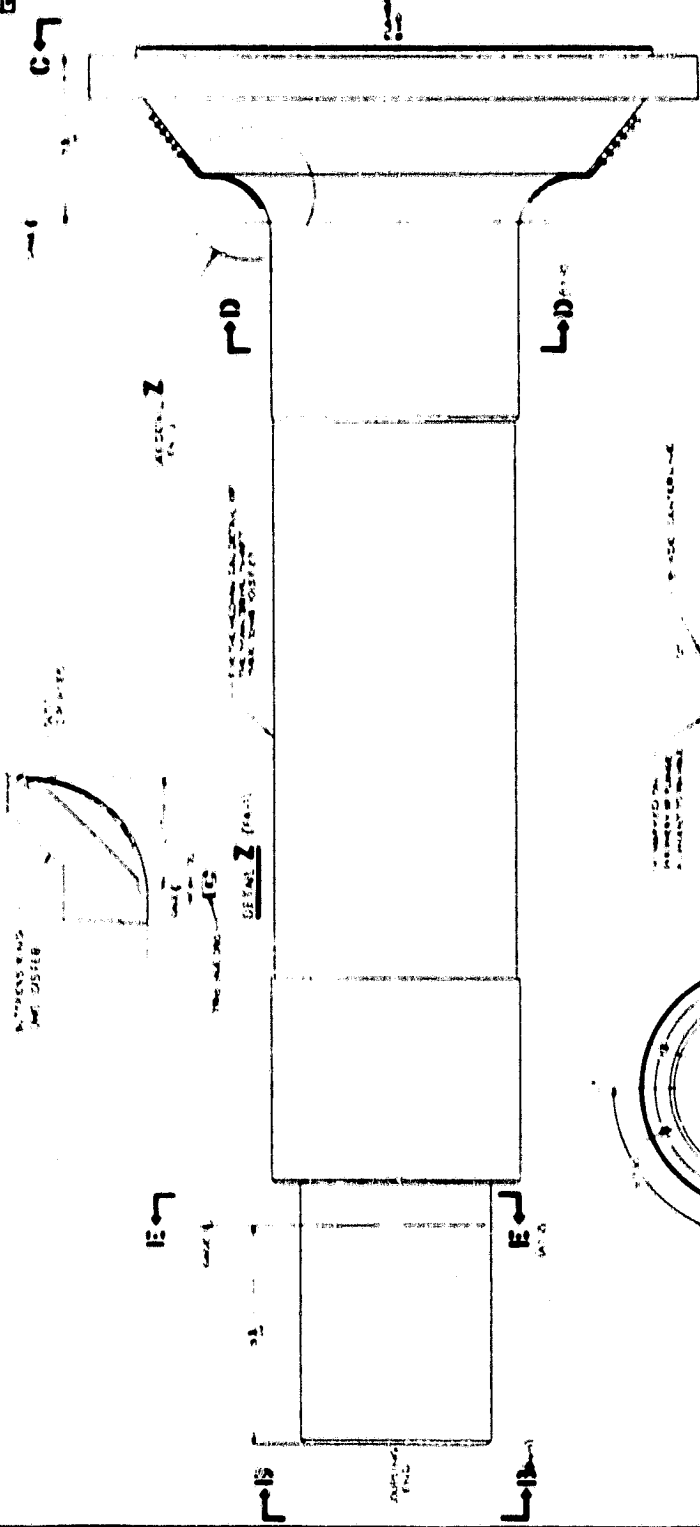
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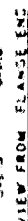
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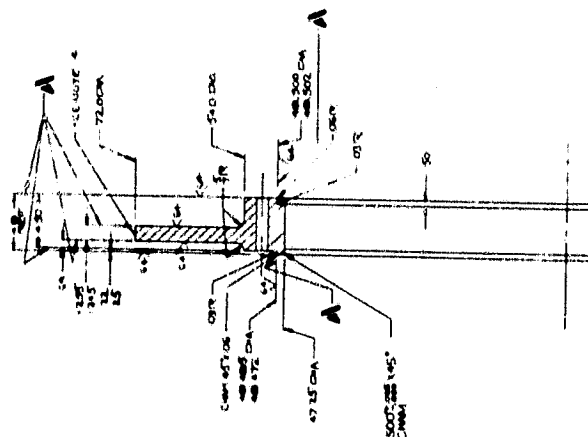
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C-3

B-13



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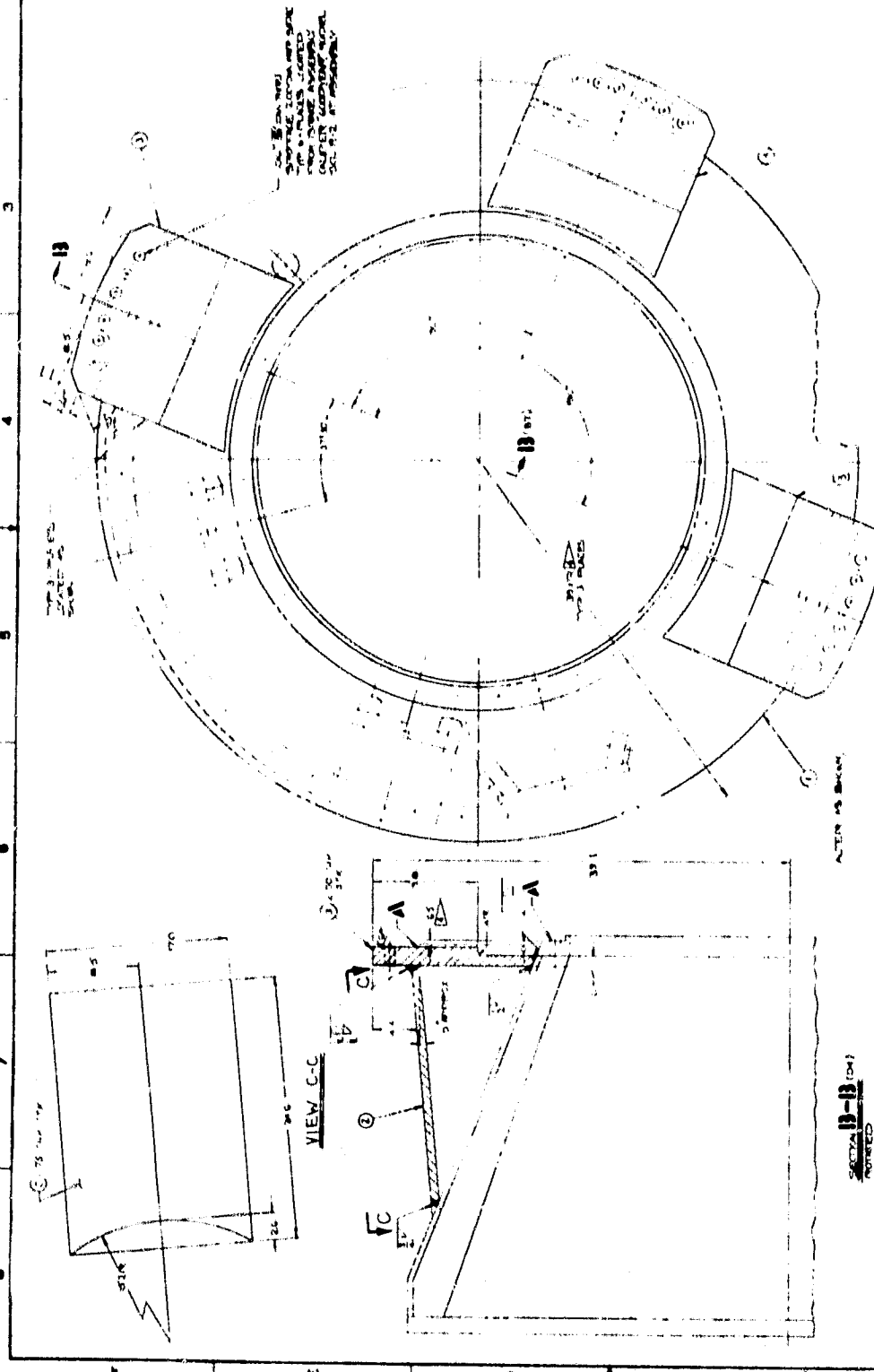
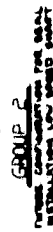
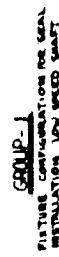
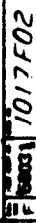
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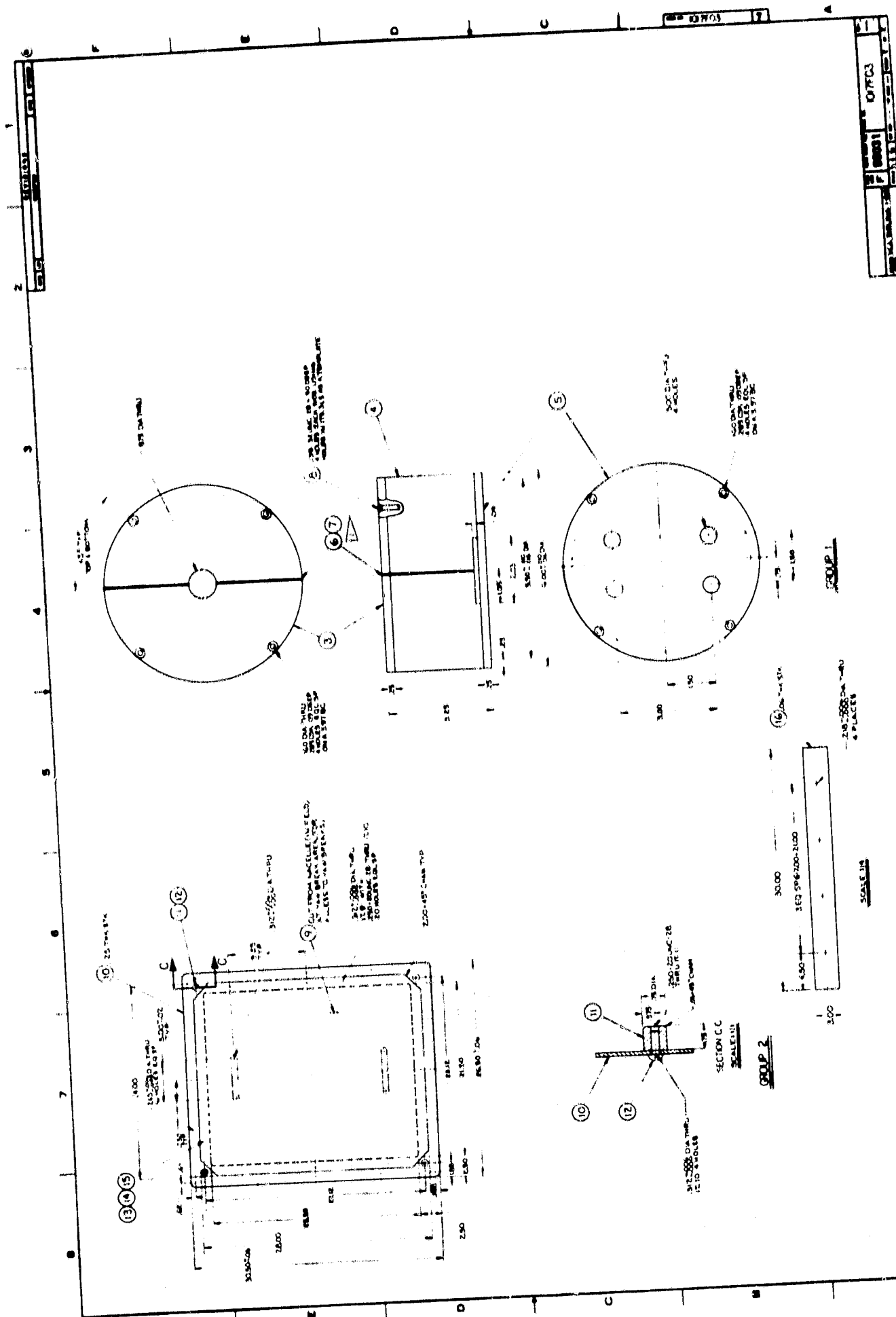
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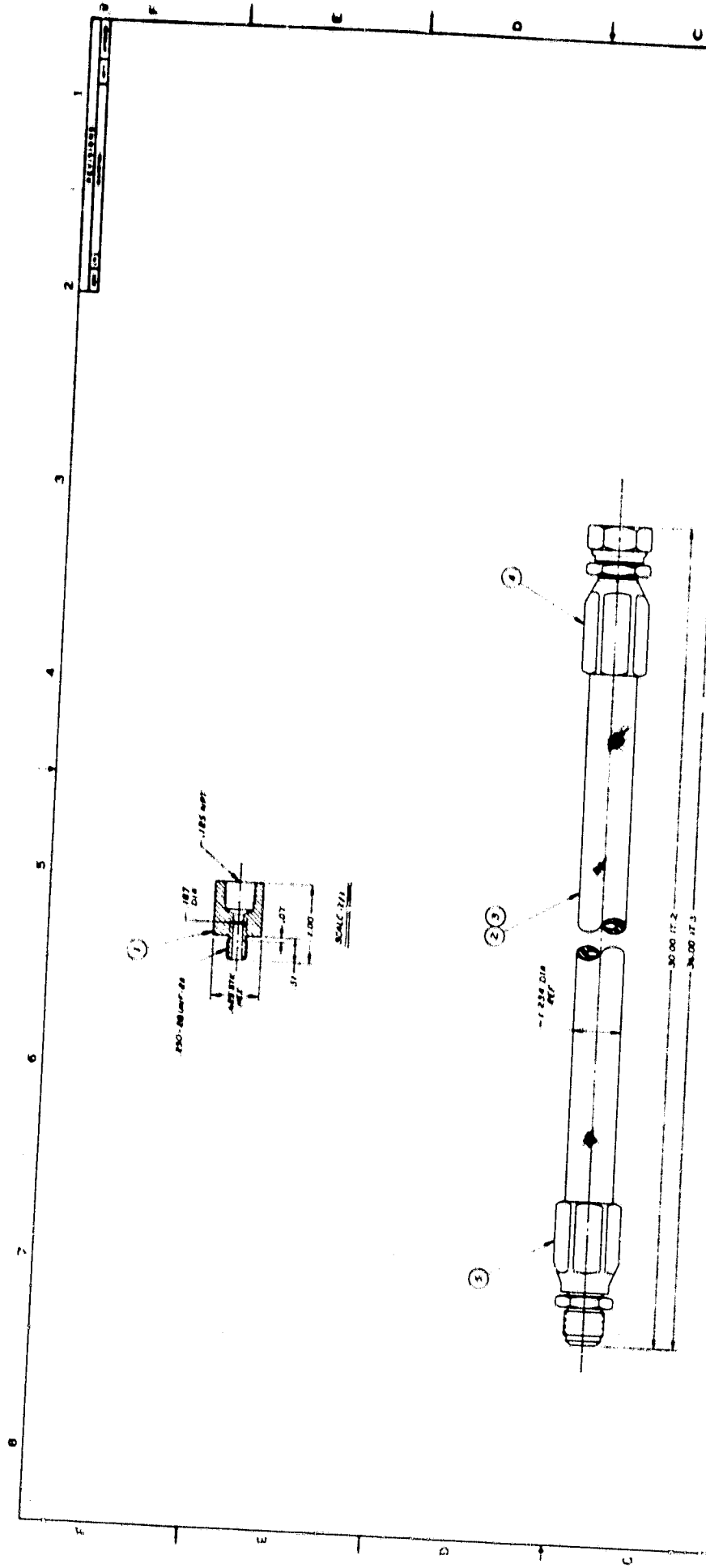




GROUP NO.	DATE NO.
1	107704601

THE OFFICE OF THE ATTORNEY GENERAL
STATE OF NEW YORK
ALBANY, N. Y.

[illegible]



GROUP-1c2
SCALE 1/1

TABLE 1

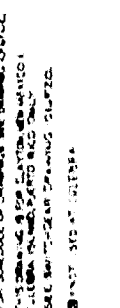
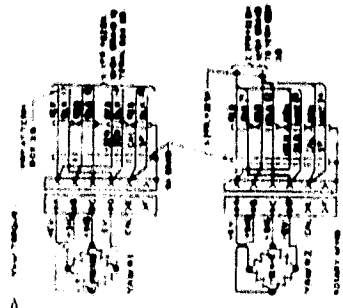
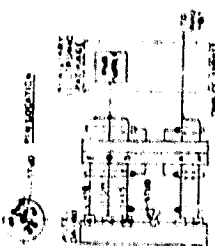
GROUP NO	ITEM NO	DESCRIPTION
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1017703	
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HYDRAULIC FITTINGS
400 OR - 500 OR
WIND TURBINE GENERATOR

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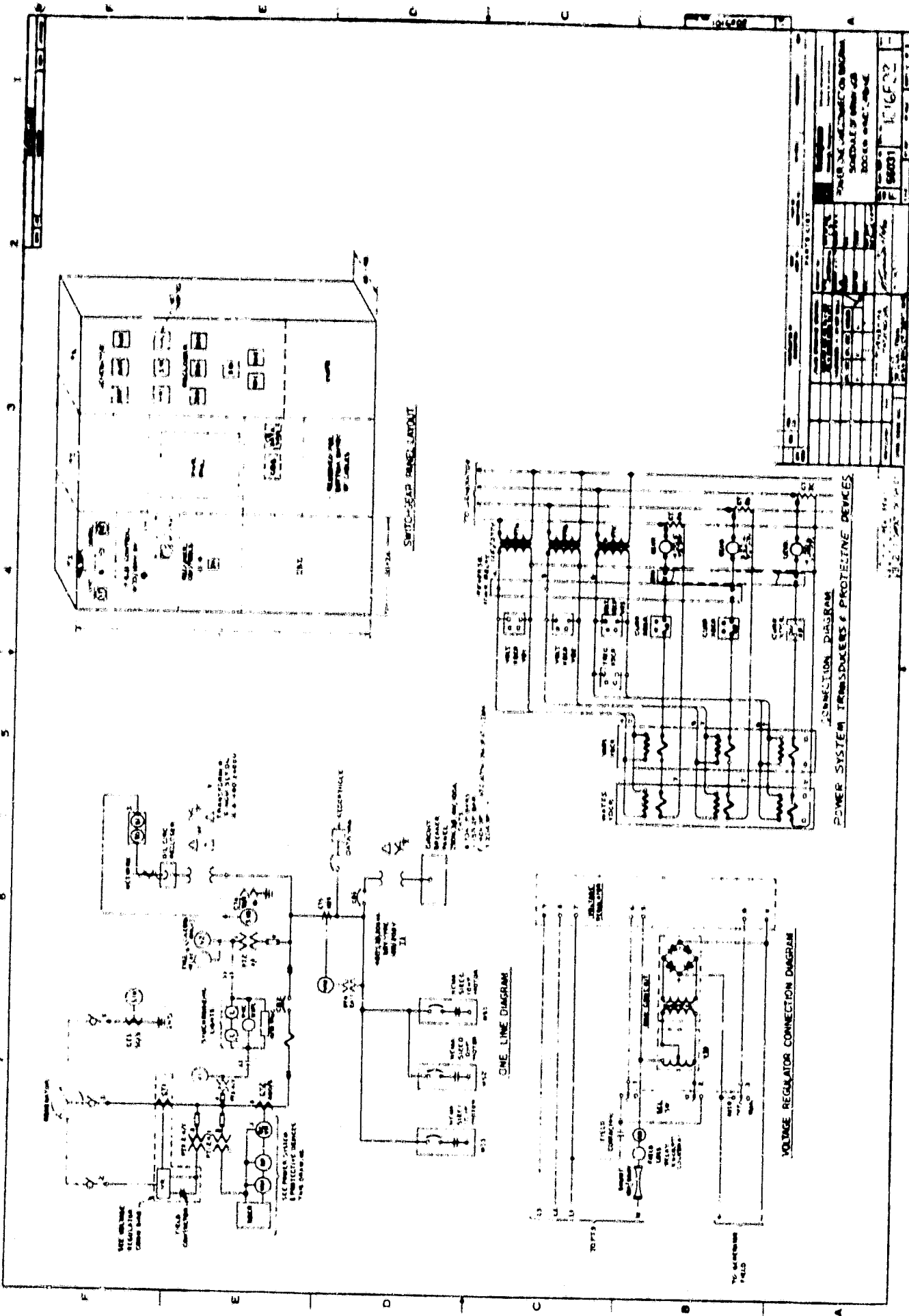
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 2. TERMINAL, MULTIPURPOSE, 1/2" DIA. (SEE NOTE 1)
 3. TERMINAL, MULTIPURPOSE, 1/2" DIA. (SEE NOTE 1)
 4. TERMINAL, MULTIPURPOSE, 1/2" DIA. (SEE NOTE 1)
 5. TERMINAL, MULTIPURPOSE, 1/2" DIA. (SEE NOTE 1)
 6. TERMINAL, MULTIPURPOSE, 1/2" DIA. (SEE NOTE 1)
 7. TERMINAL, MULTIPURPOSE, 1/2" DIA. (SEE NOTE 1)
 8. TERMINAL, MULTIPURPOSE, 1/2" DIA. (SEE NOTE 1)
 9. TERMINAL, MULTIPURPOSE, 1/2" DIA. (SEE NOTE 1)
 10. TERMINAL, MULTIPURPOSE, 1/2" DIA. (SEE NOTE 1)



1. FOR SCHEDULE OF TERMINALS SEE DRAWING 0001
 2. THIS DRAWING IS FOR EXTERIOR USE ONLY
 3. SEE NOTE 1 FOR DRAWING 0001
 4. SEE NOTE 2 FOR DRAWING 0001
 5. SEE NOTE 3 FOR DRAWING 0001
 6. SEE NOTE 4 FOR DRAWING 0001
 7. SEE NOTE 5 FOR DRAWING 0001
 8. SEE NOTE 6 FOR DRAWING 0001
 9. SEE NOTE 7 FOR DRAWING 0001
 10. SEE NOTE 8 FOR DRAWING 0001

PROJECT LIST		PROJECT NO.		PROJECT NAME		PROJECT LOCATION		PROJECT DATE		PROJECT STATUS	
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9	10009	10009	10009	10009	10009	10009	10009	10009	10009	10009	10009
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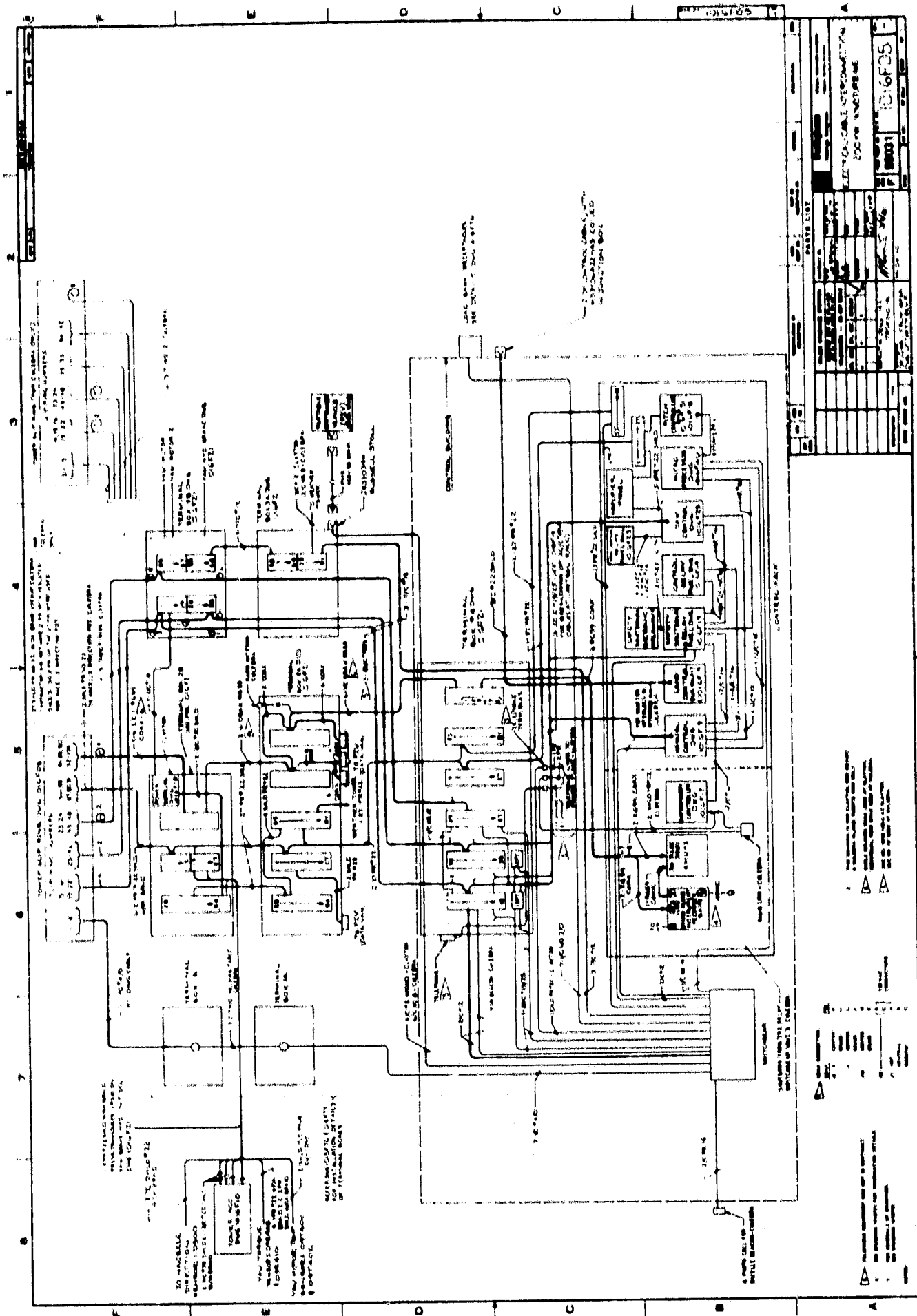
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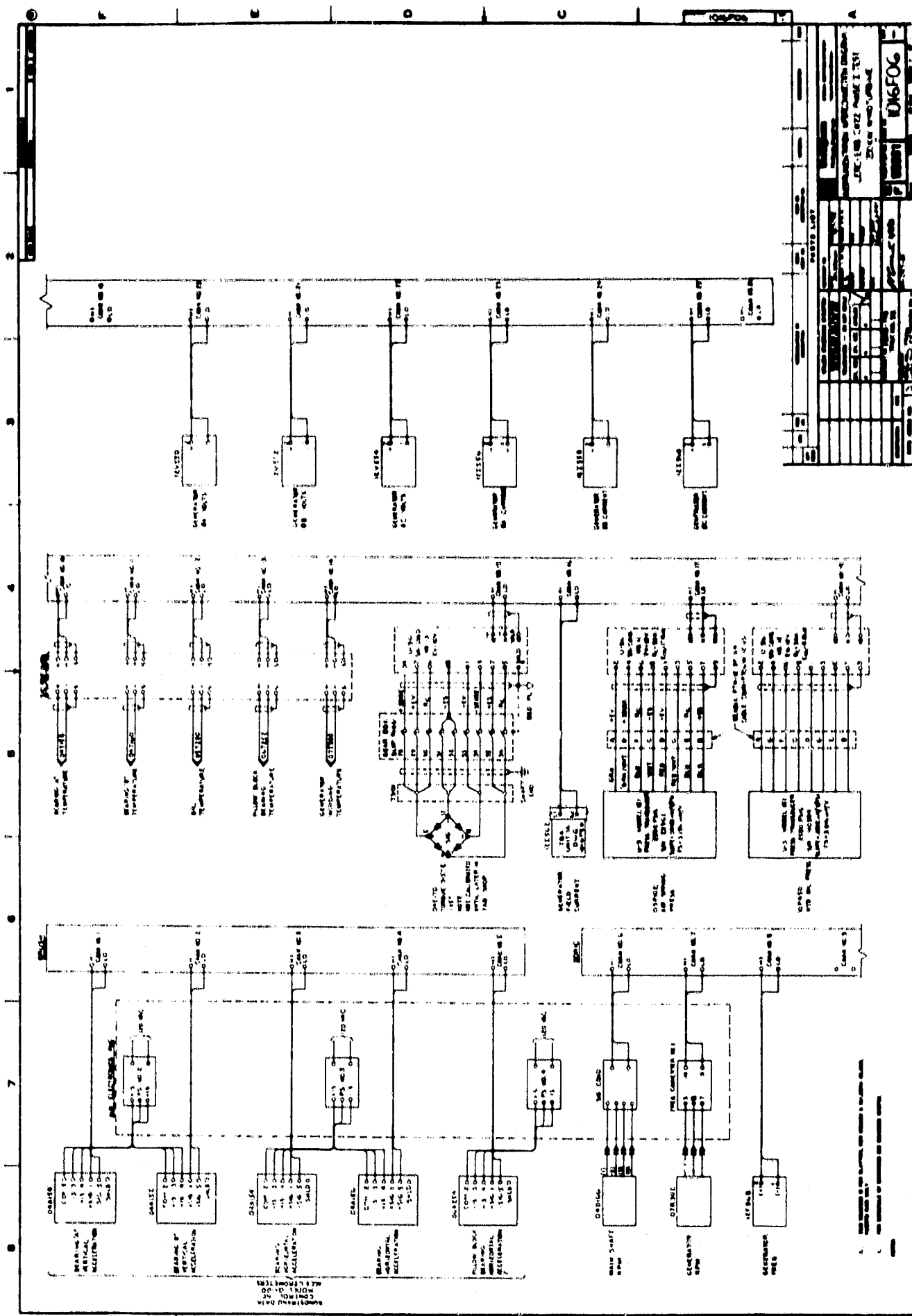


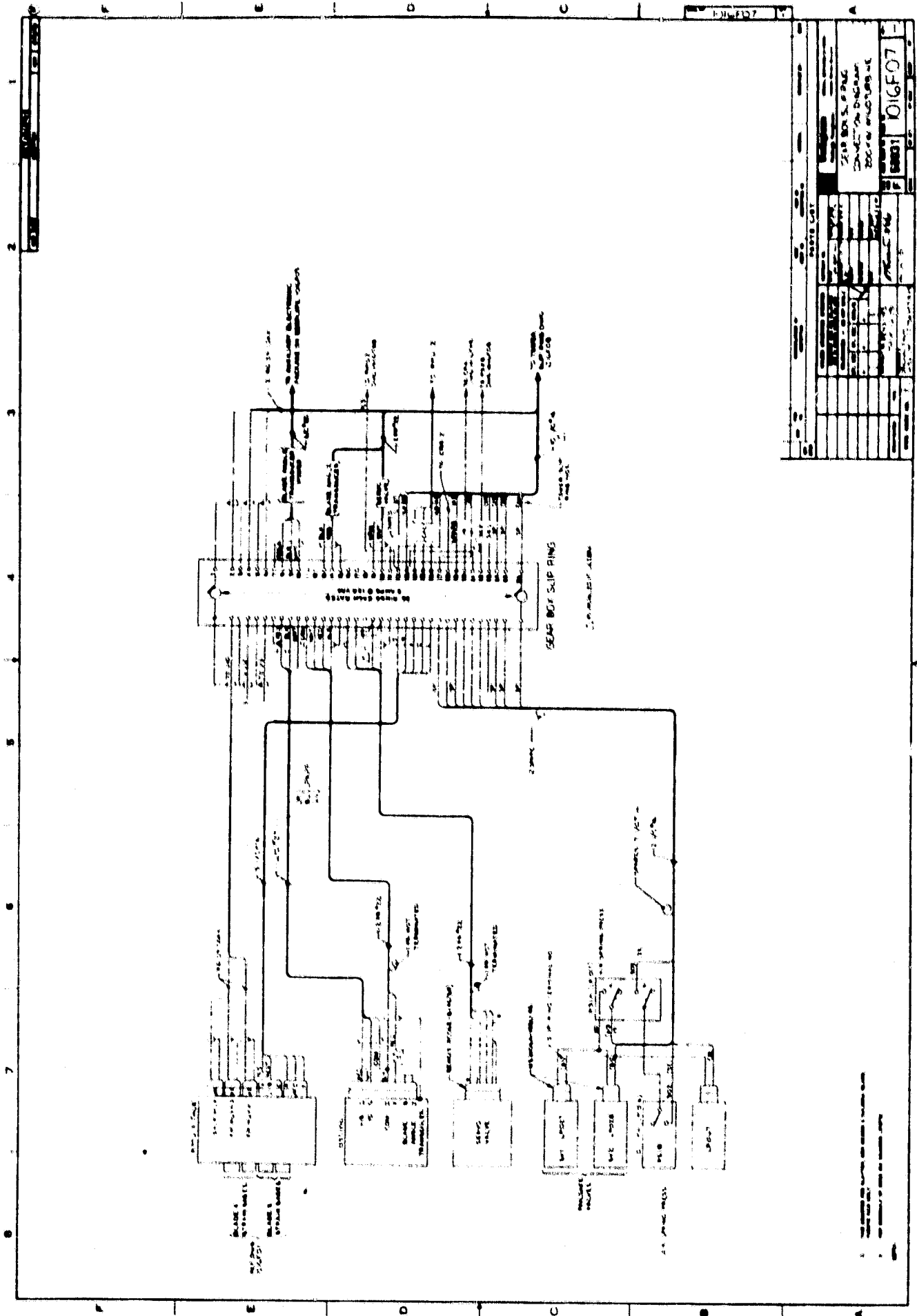
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Although it holds the obvious appeal of being able to make money without having to work, the fact is that the average person who enters the field of stock investing loses the money he or she invested. And, unfortunately, the average person who enters the field of stock investing loses the money he or she invested. And, unfortunately, the average person who enters the field of stock investing loses the money he or she invested.



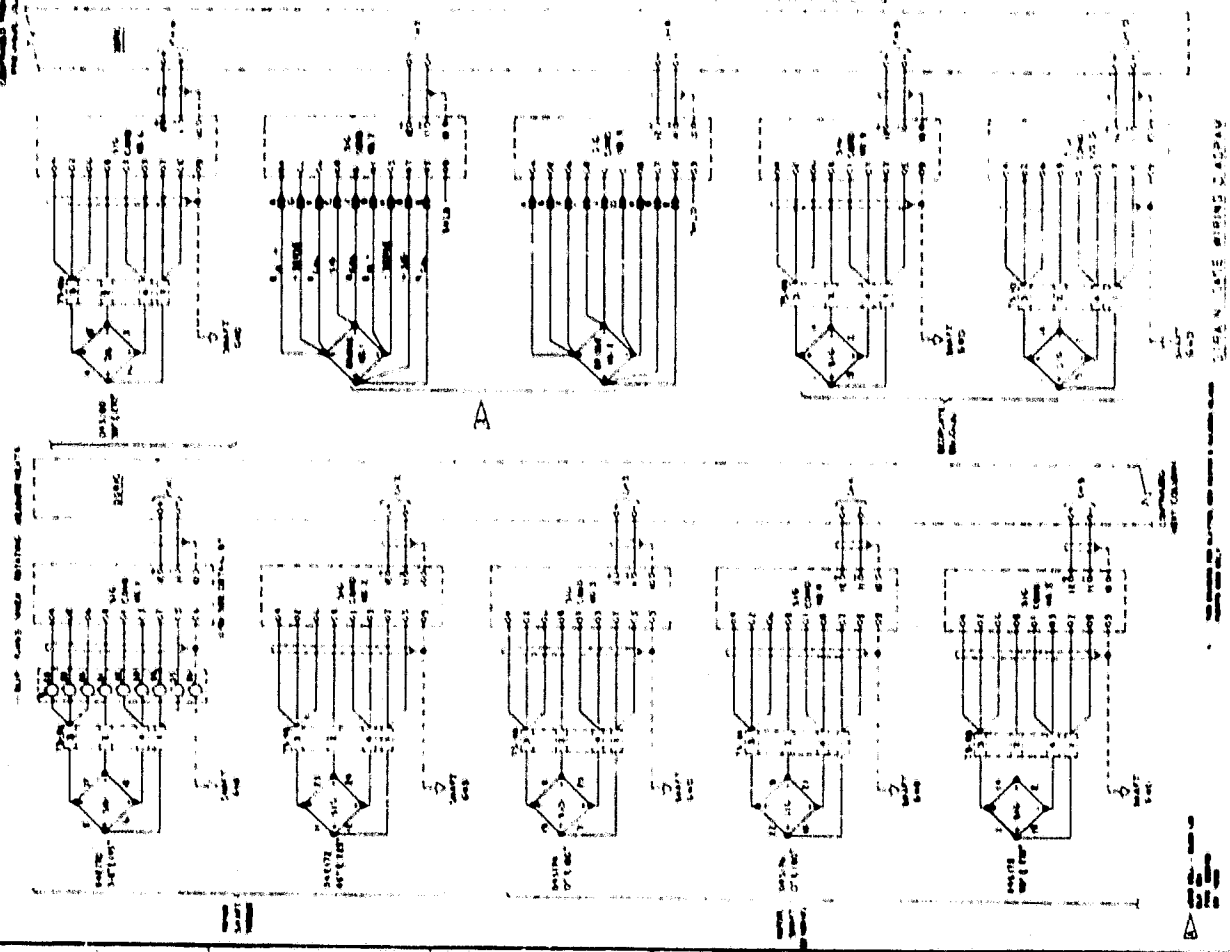
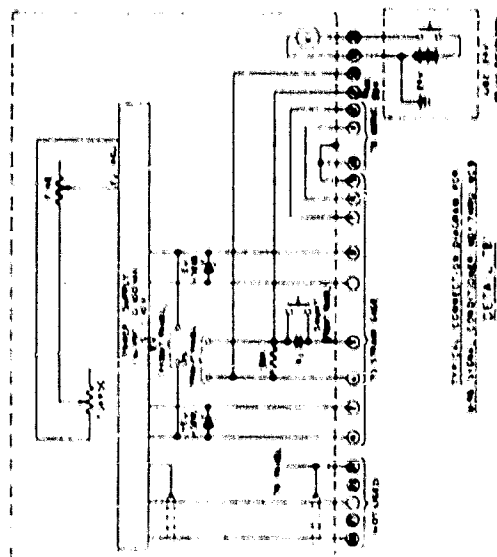




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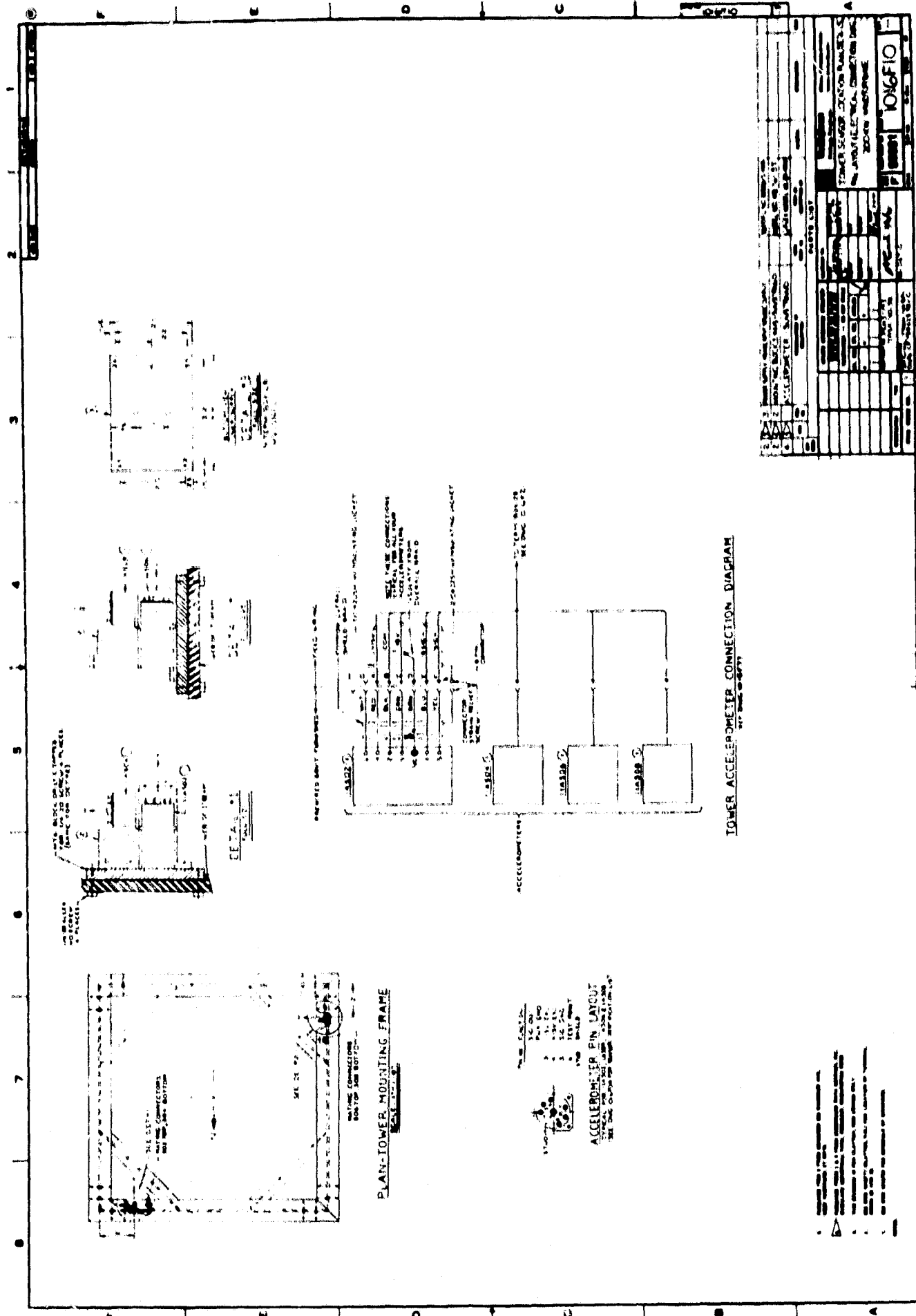
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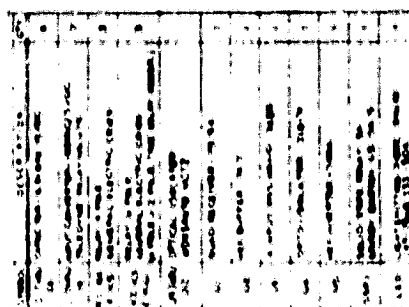
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EQUIPMENT LAYOUT

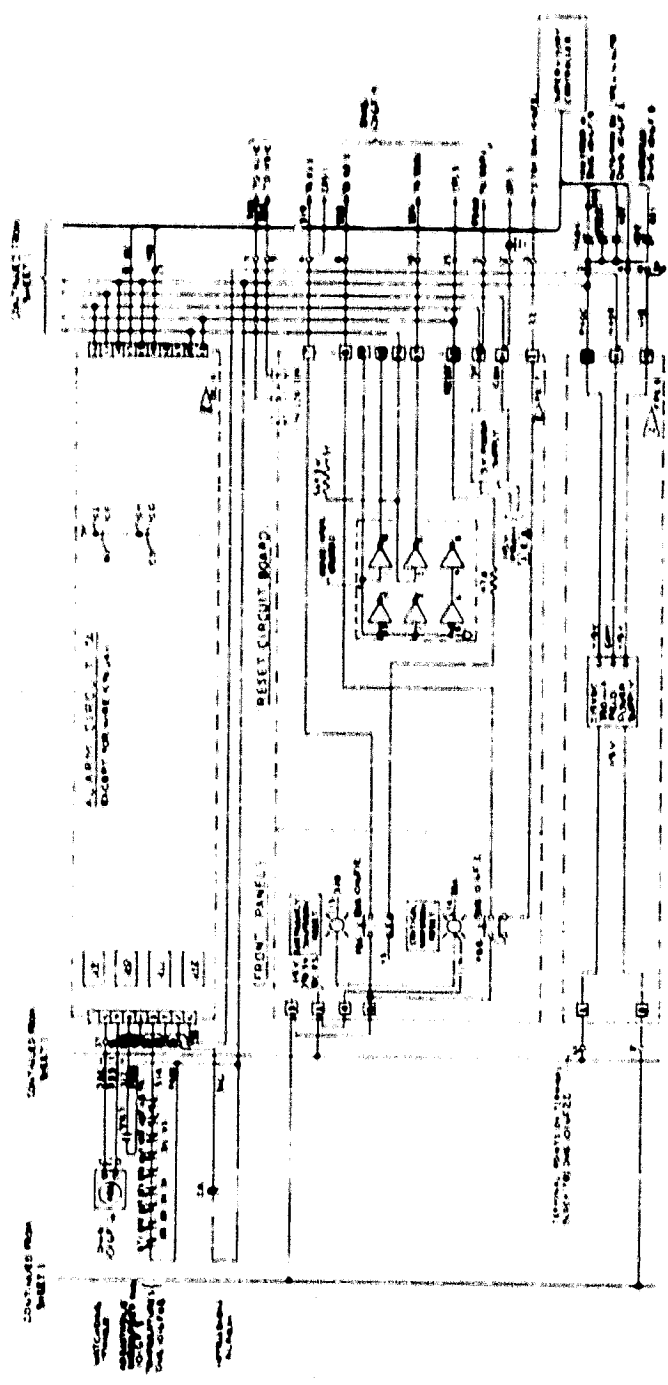
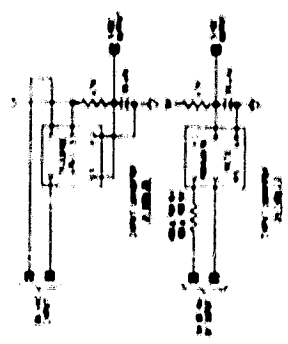


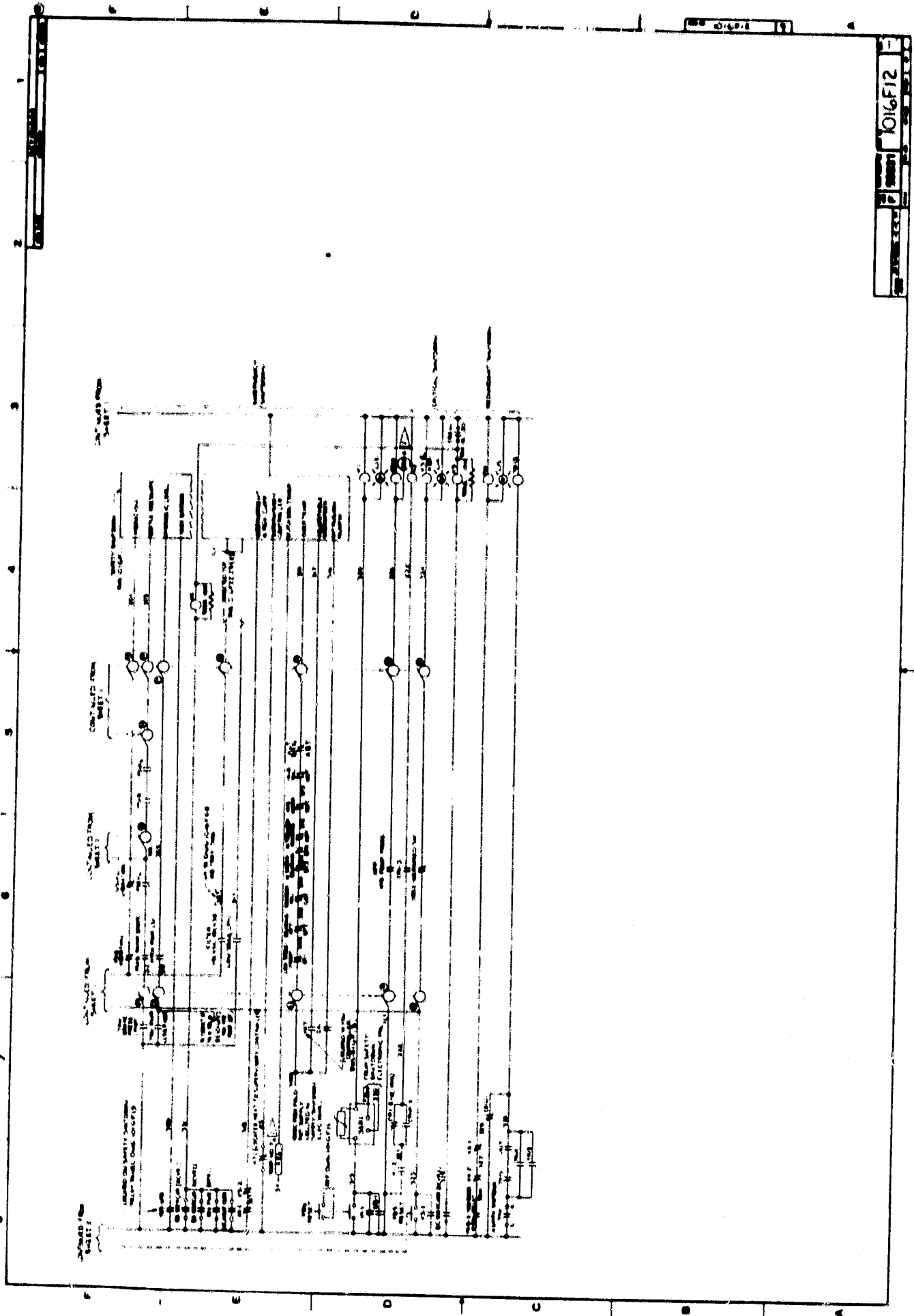
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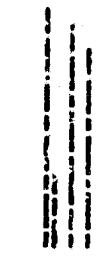
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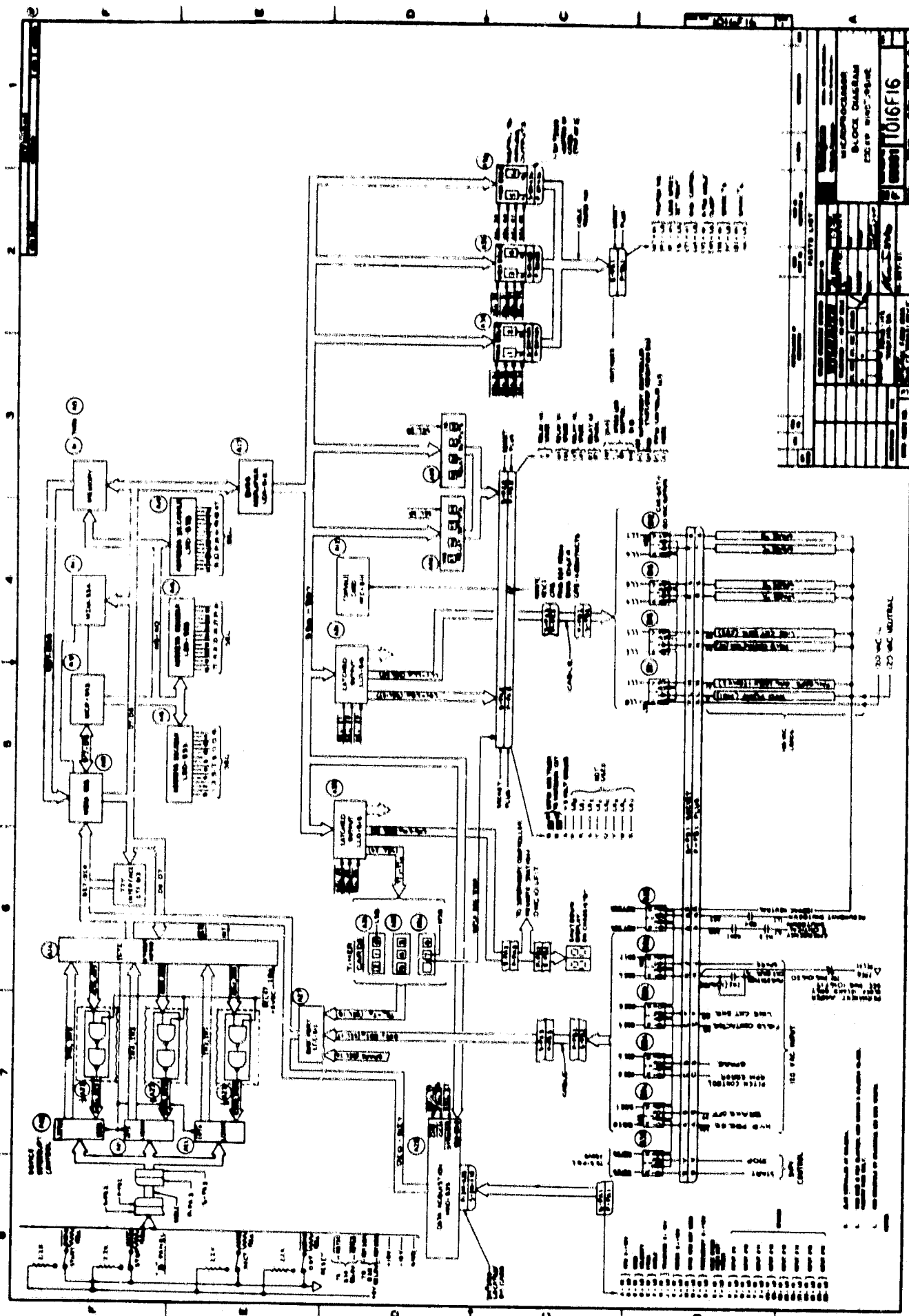


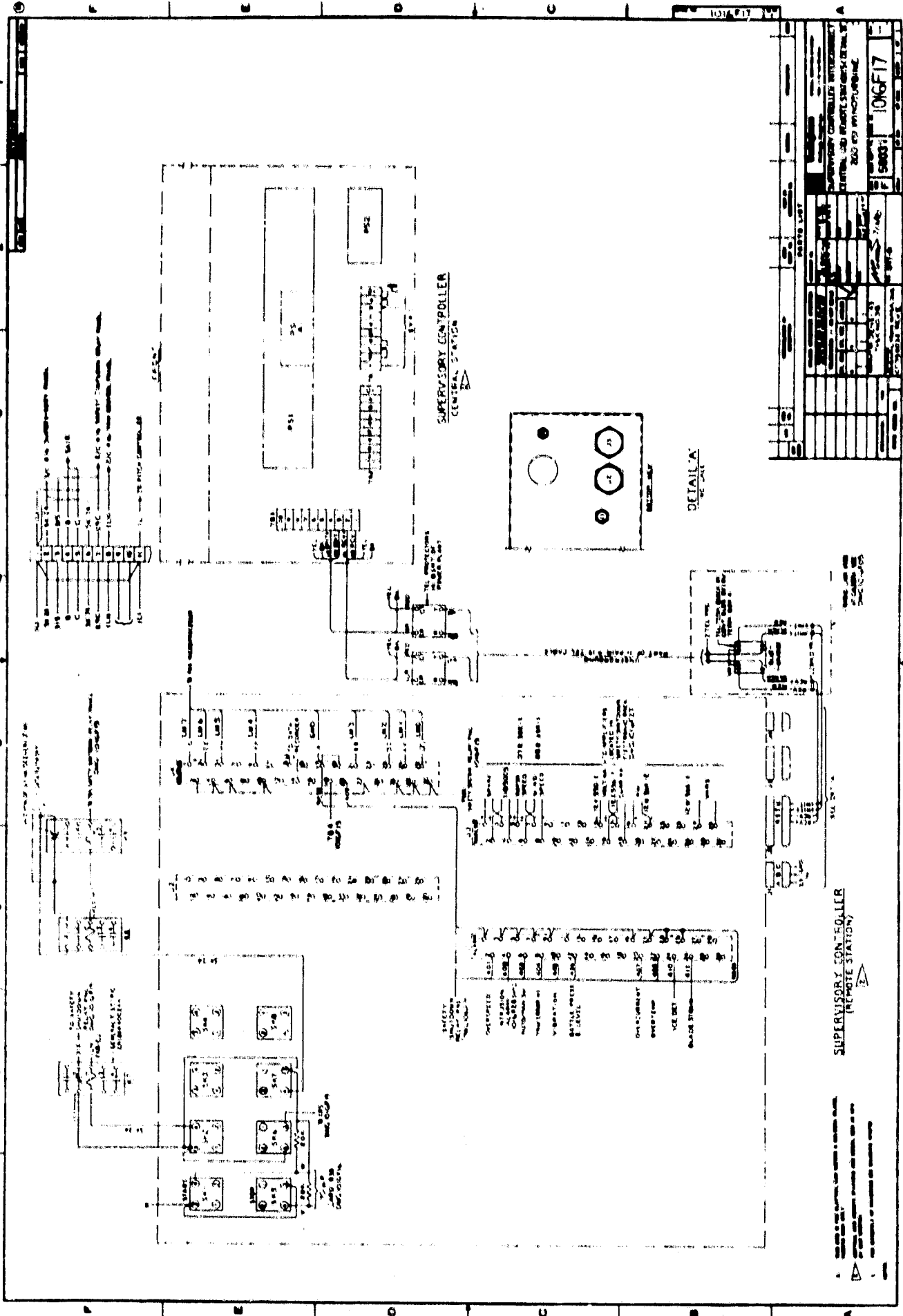
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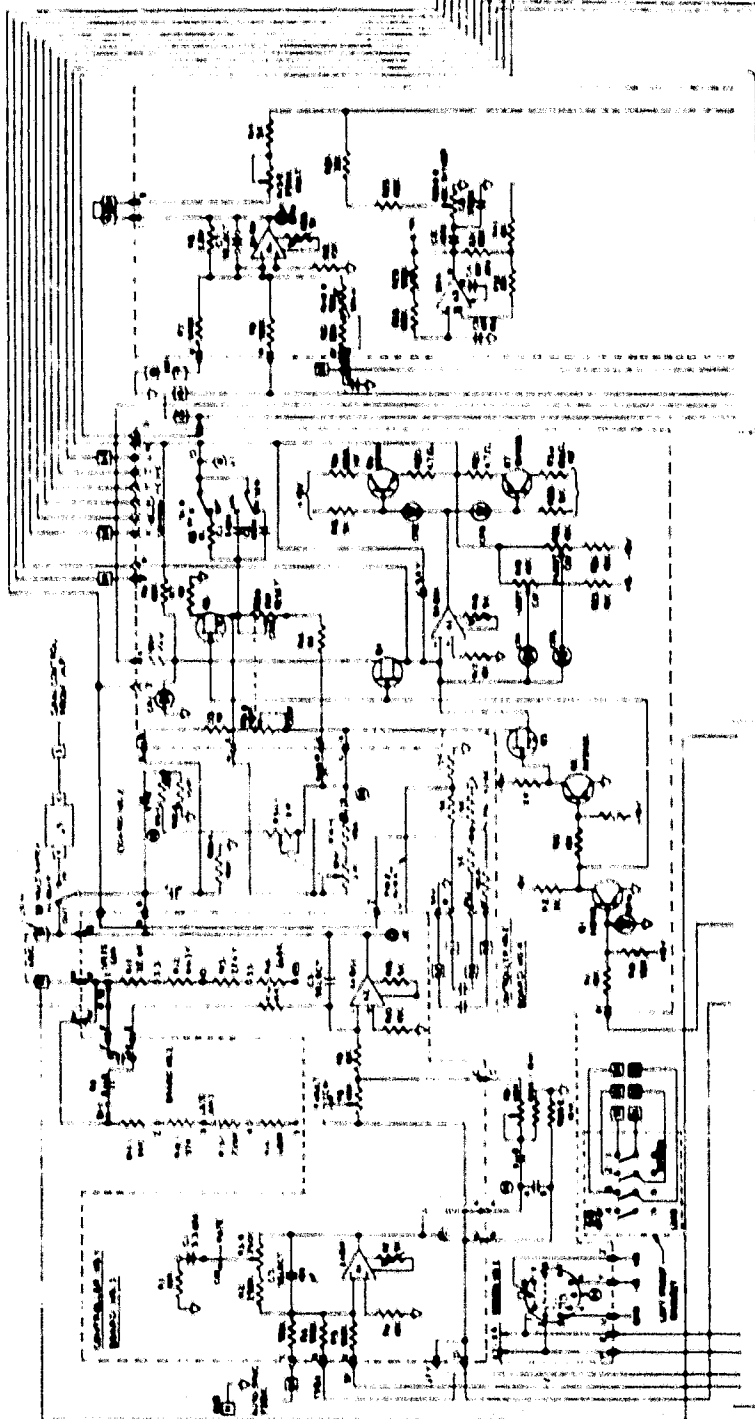
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SUPERVISORY CONTROLLER REMOTE STATION	
DATE	10/6/17
BY	5803
REVISION	
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CHECKED	
DESIGNED	
DRAWN	
TESTED	
ASSEMBLED	
WARRANTY	
REPAIR	
REPLACE	
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SUPERVISORY CONTROLLER
(REMOTE STATION)

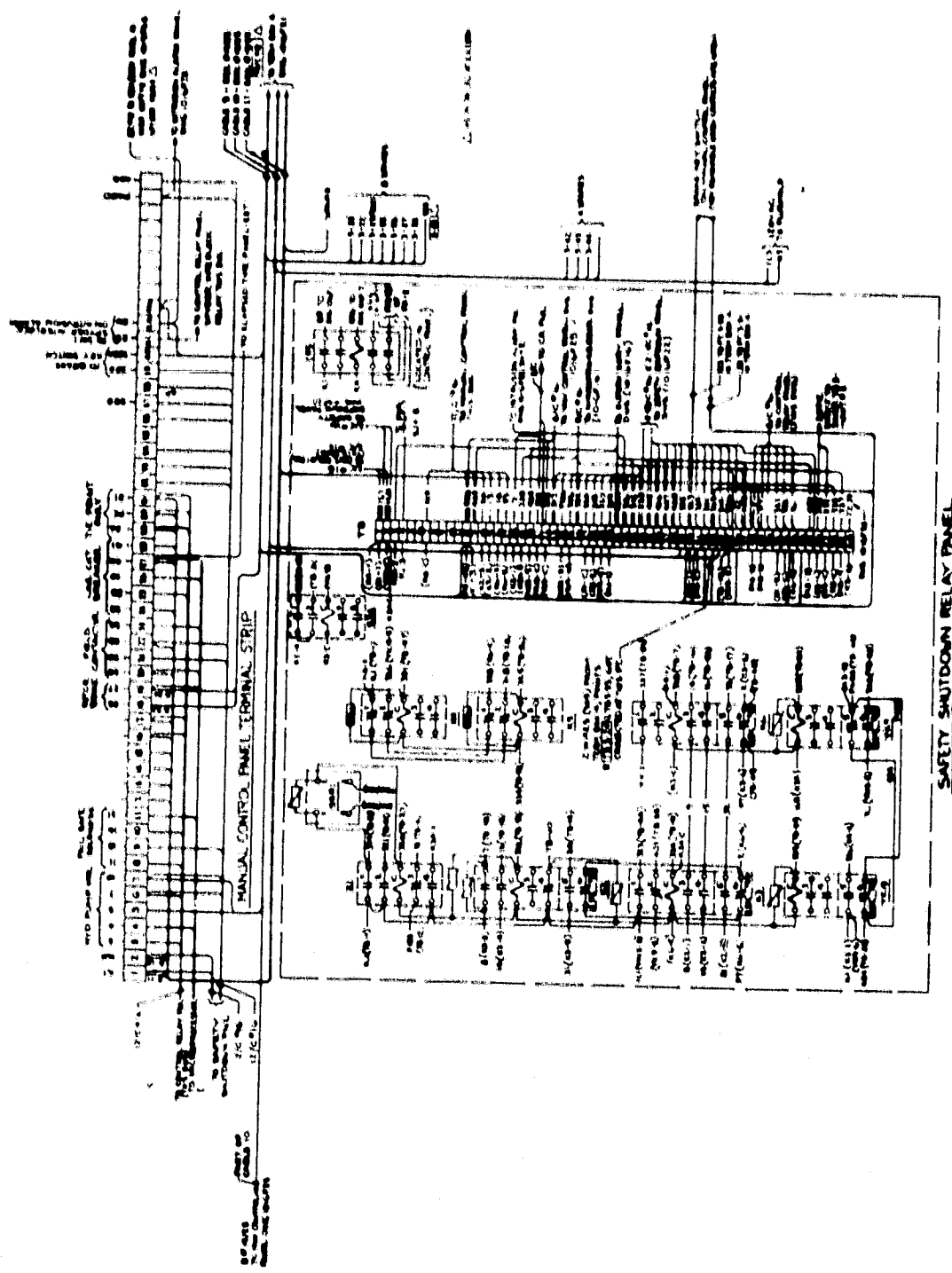


CONTINUED ON SHEET 2

- INDICATES NEW PAPER REPORTED
- INDICATES PART OF A REPORTED
- INDICATES TOTAL COST

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BRITISH



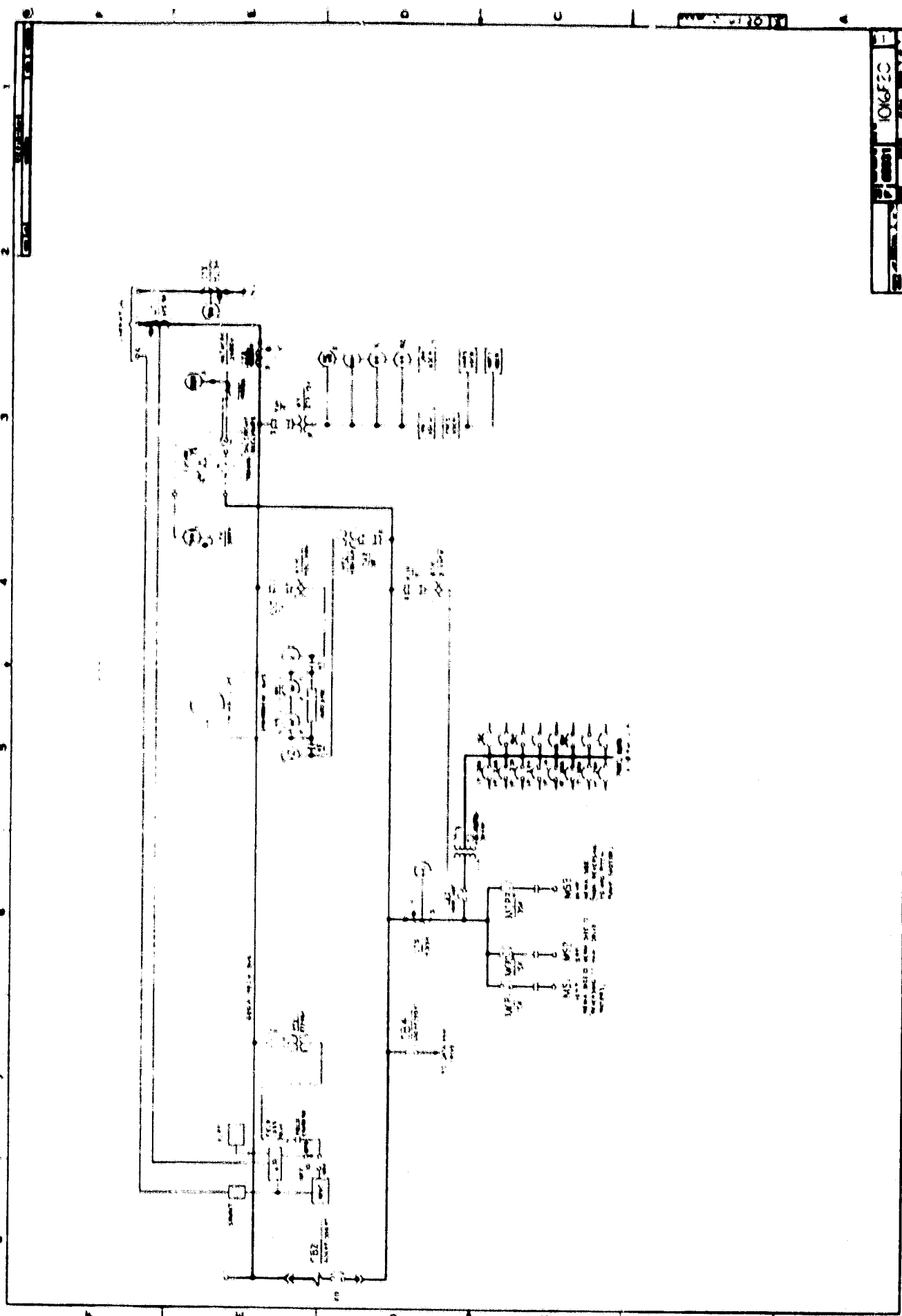
SAFETY SHUTDOWN RELAY PANEL

216

ITEM	DESCRIPTION
1000	ALUMINUM TRANSDUCER, 200 PSI
1010	CIRCUIT BREAKER
1020	CIRCUIT TRANSFORMER
1030	PAIR
1040	RECHARGE LIGHTS
1050	WATER PUMP MOTOR
1060	WATER STARTER
1070	DISCONNECT SWITCH, REFRIGERANT RELAY
1080	WATER TRANSFORMER
1090	REVERSE POWER RELAY
1100	CAPACITOR
1110	VOLTAGE REGULATOR
1120	WATER PUMP MOTOR
1130	TRANSFORMER
1140	DISCONNECT SWITCH, REFRIGERANT RELAY
1150	WATER TRANSFORMER (WATER/PAIR)
1160	WATER PUMP MOTOR
1170	WATER PUMP MOTOR CONTROLLER
1180	WATER PUMP MOTOR
1190	WATER TRANSFORMER (WATER/PAIR)

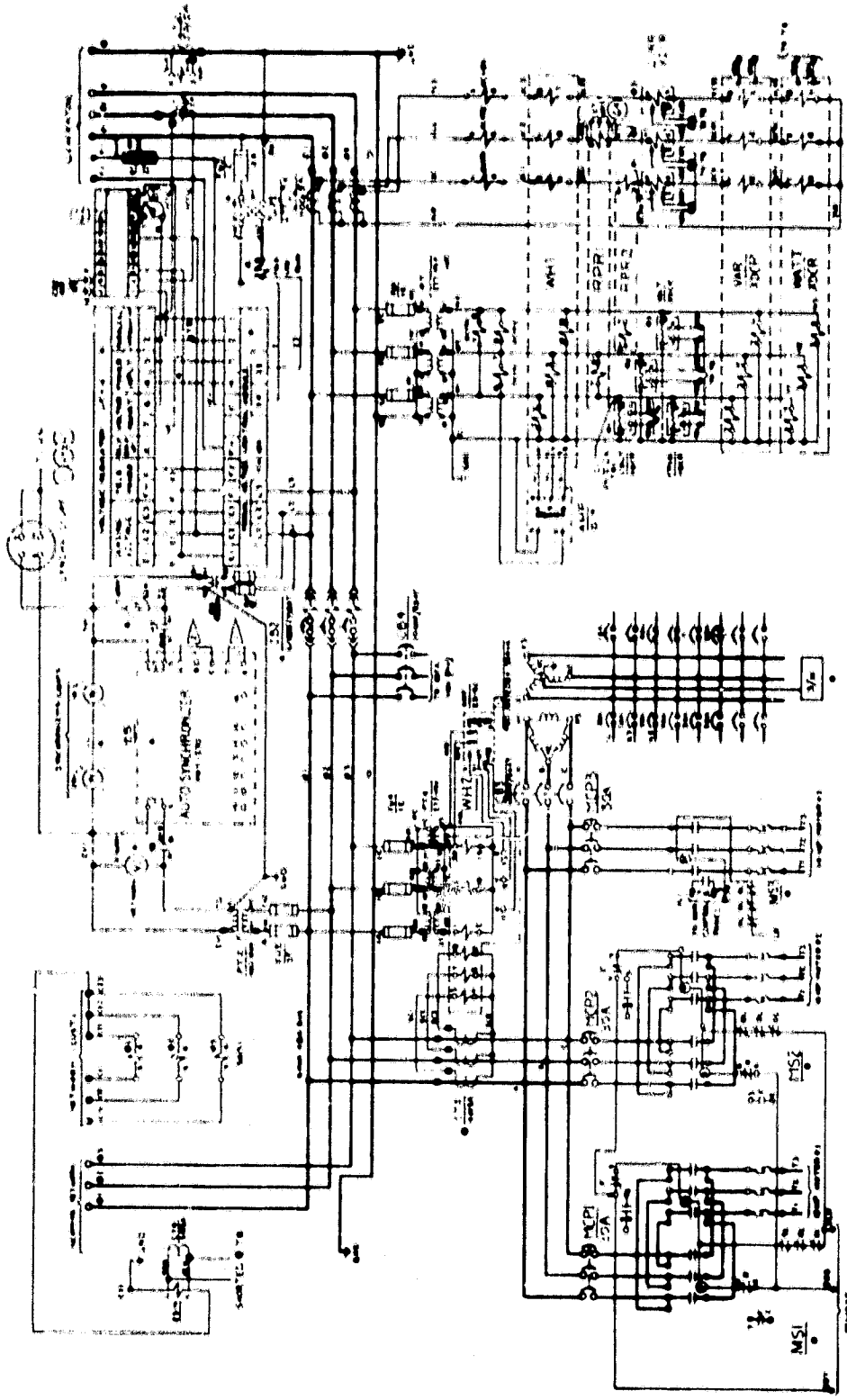
24. THE BUREAU IS FOR CLARIFICATION AND COORDINATION. BUREAU HAS TO DO ONLY
STANDARD REVERSE CONTACTS ARE BEING FULLY INTERLOCKED.
25. BUREAU IS DOING NOTHING.
26. (INDICATES LOCATION OF UNIT) IS IT A NEW UNIT? UNIT HAS
A BUREAU ON TRANSDUCER. IT IS NOT THE SAME AS THE ONE IN THE
27. ONE WOULD LIKE TO CONTACT THE COMMANDER. BUREAU HAS
THE SAME AS THE ONE IN THE BUREAU. BUREAU HAS
28. FOR A LITTLE OF DRAWINGS ARE DRAWING OUT FOR
29. BUREAU FOR SELECTION OF BUREAU. BUREAU HAS TO DO
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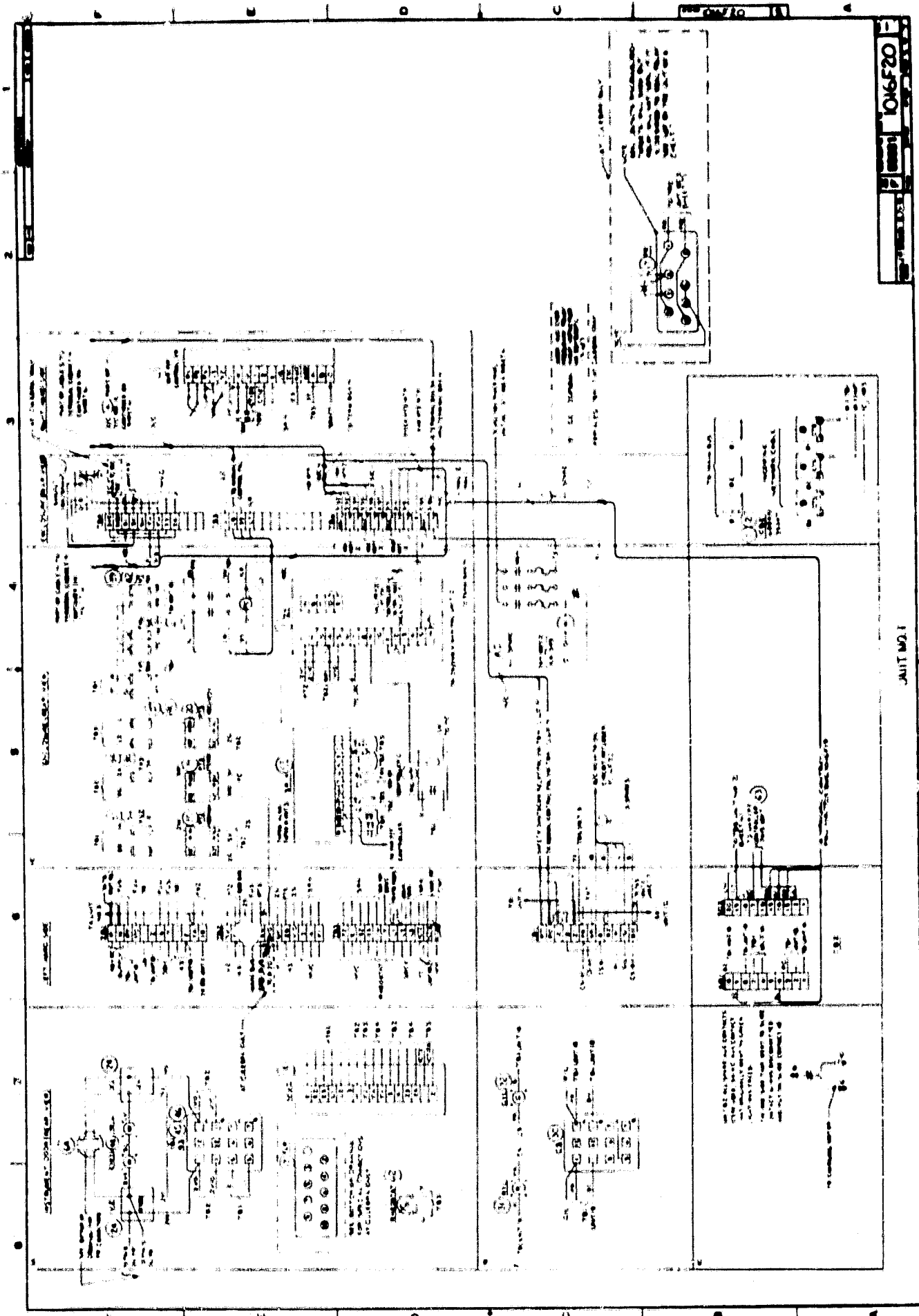
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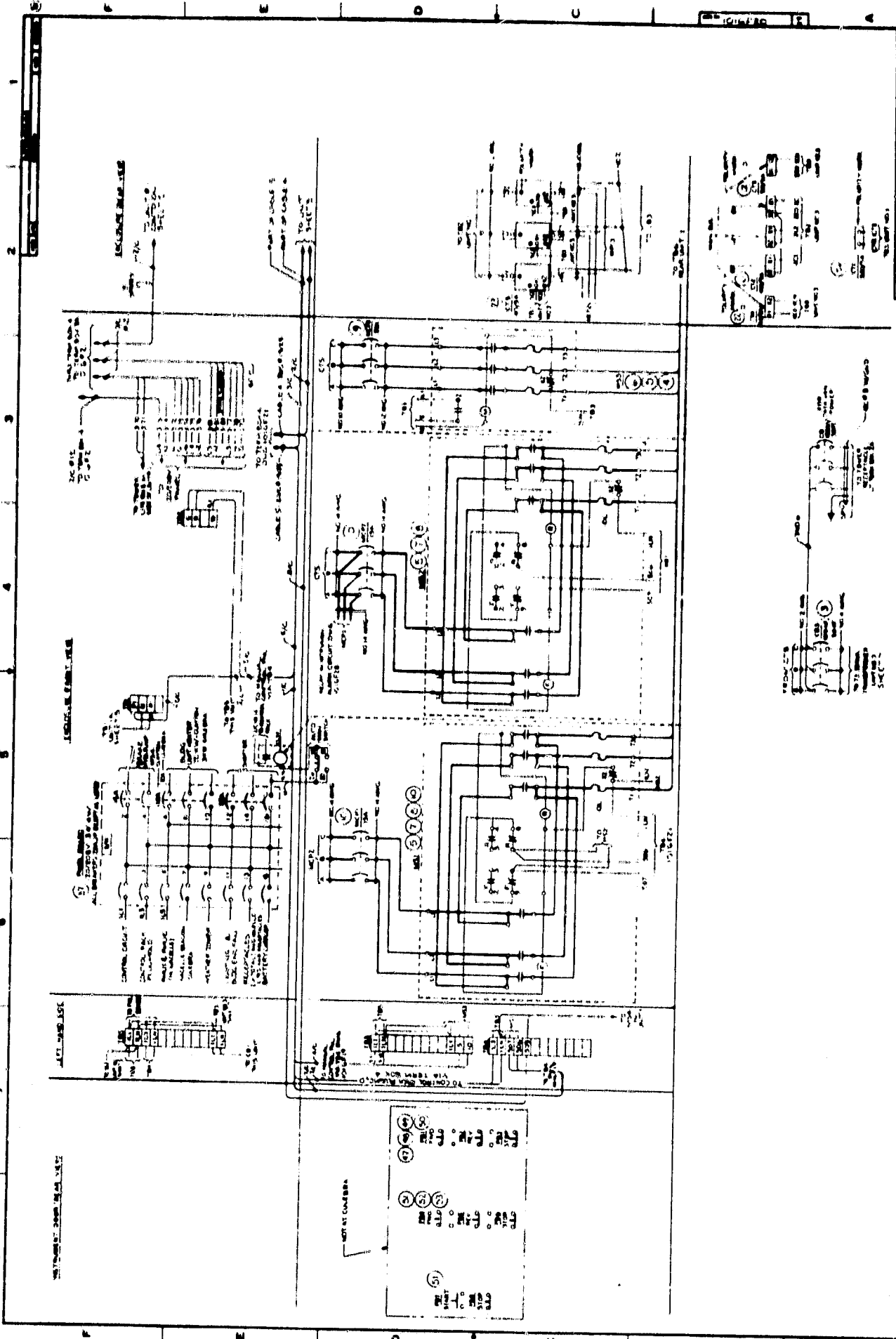
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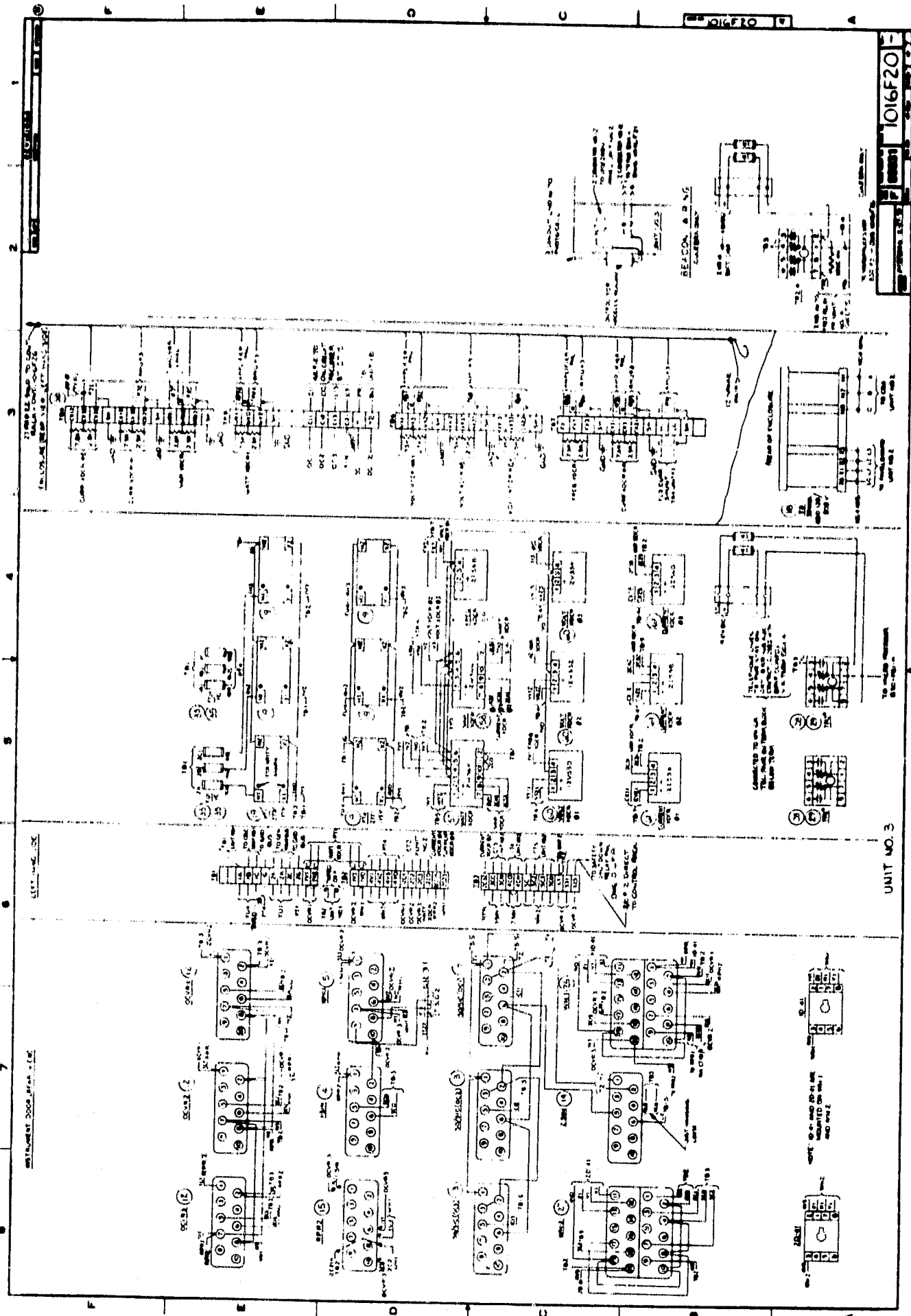
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UNIT NO. 2

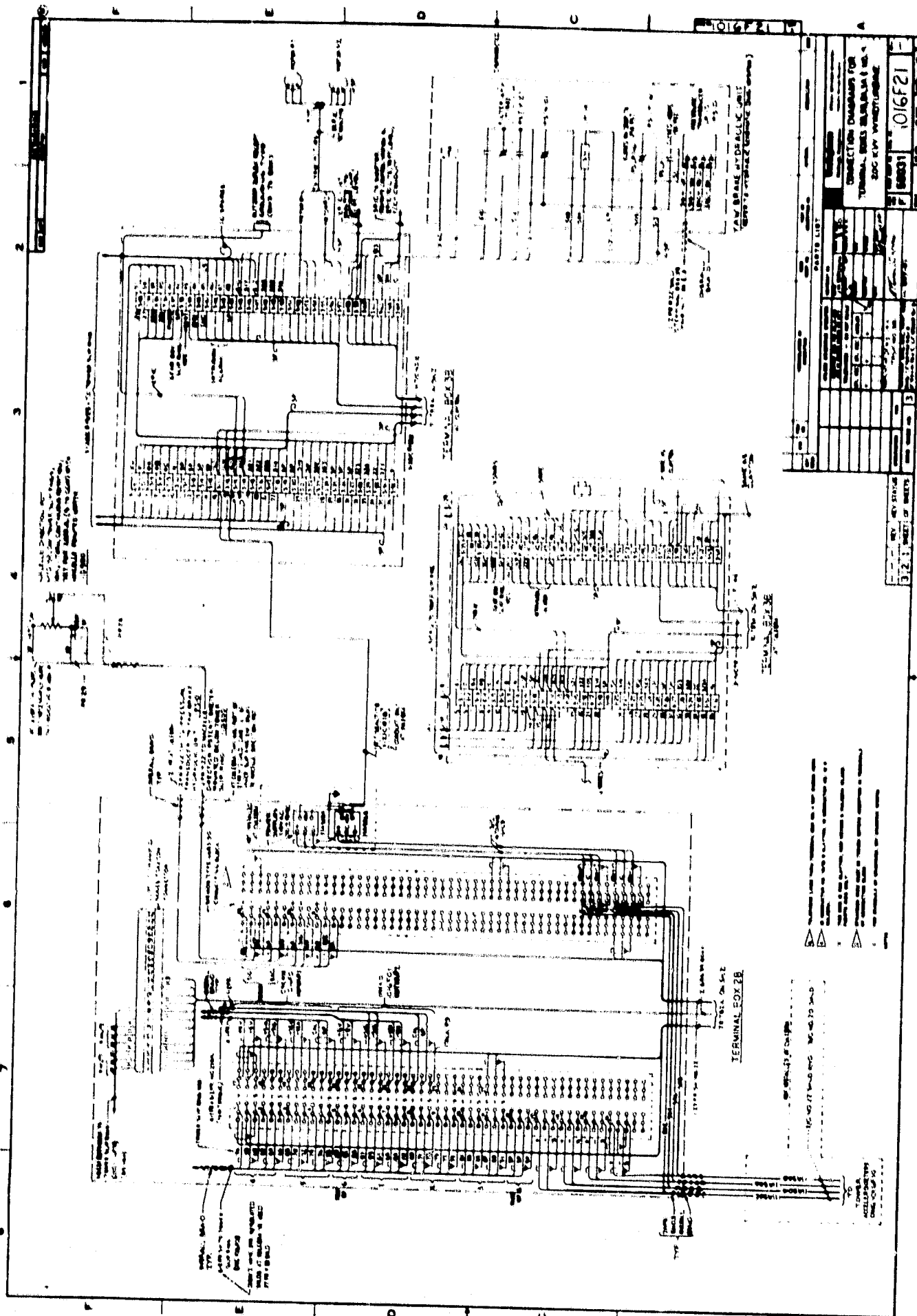
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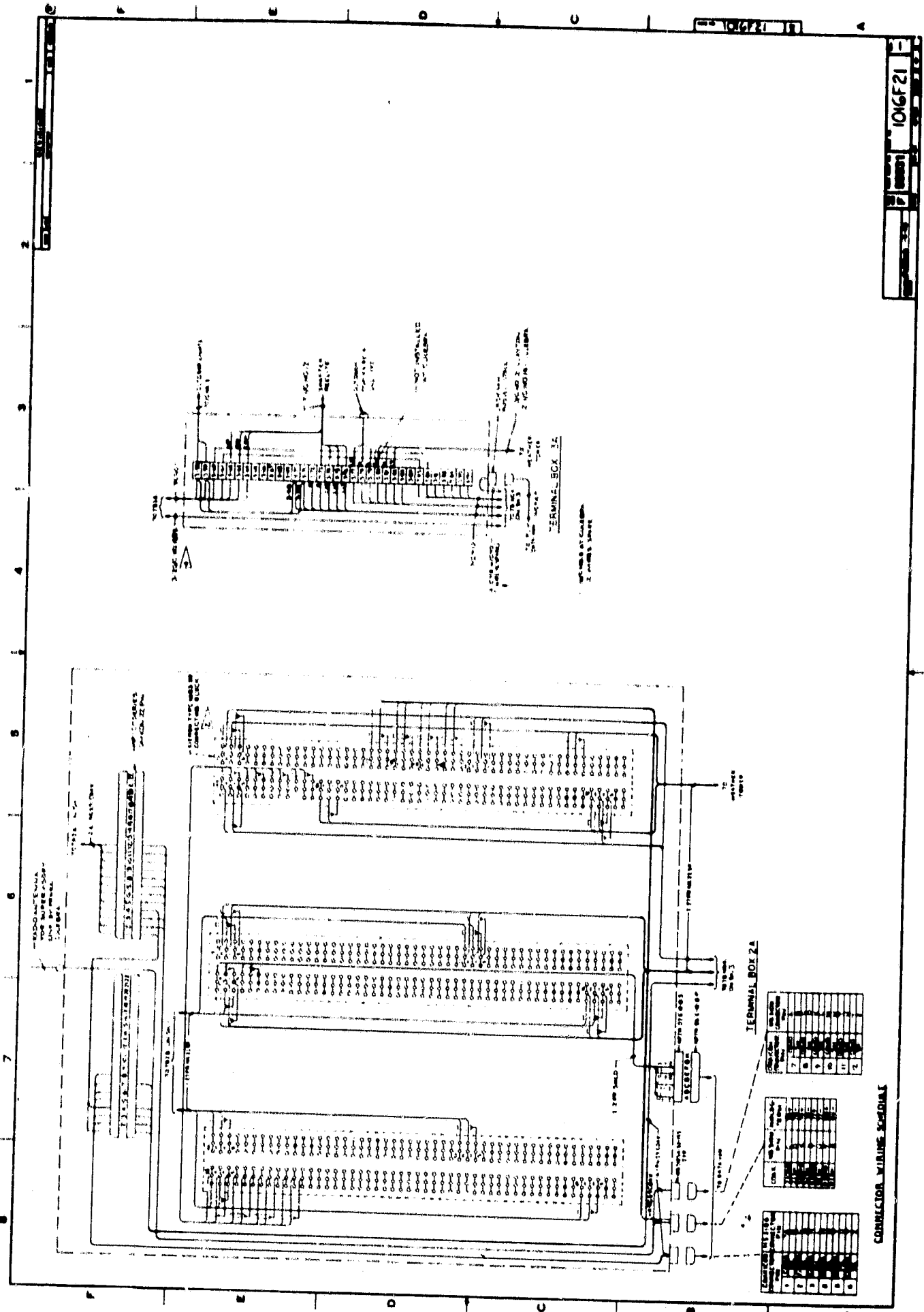


UNIT NO. 3

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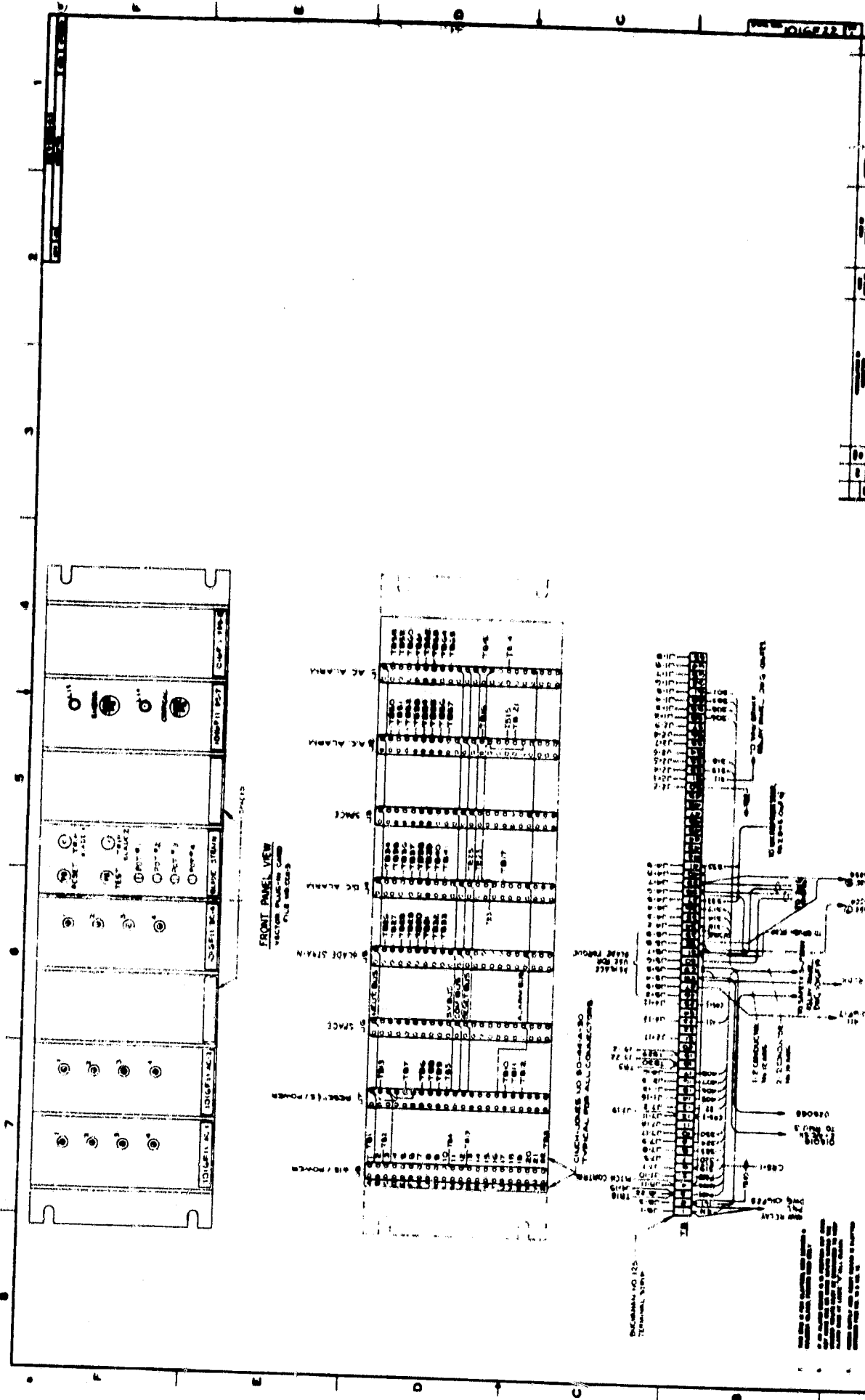
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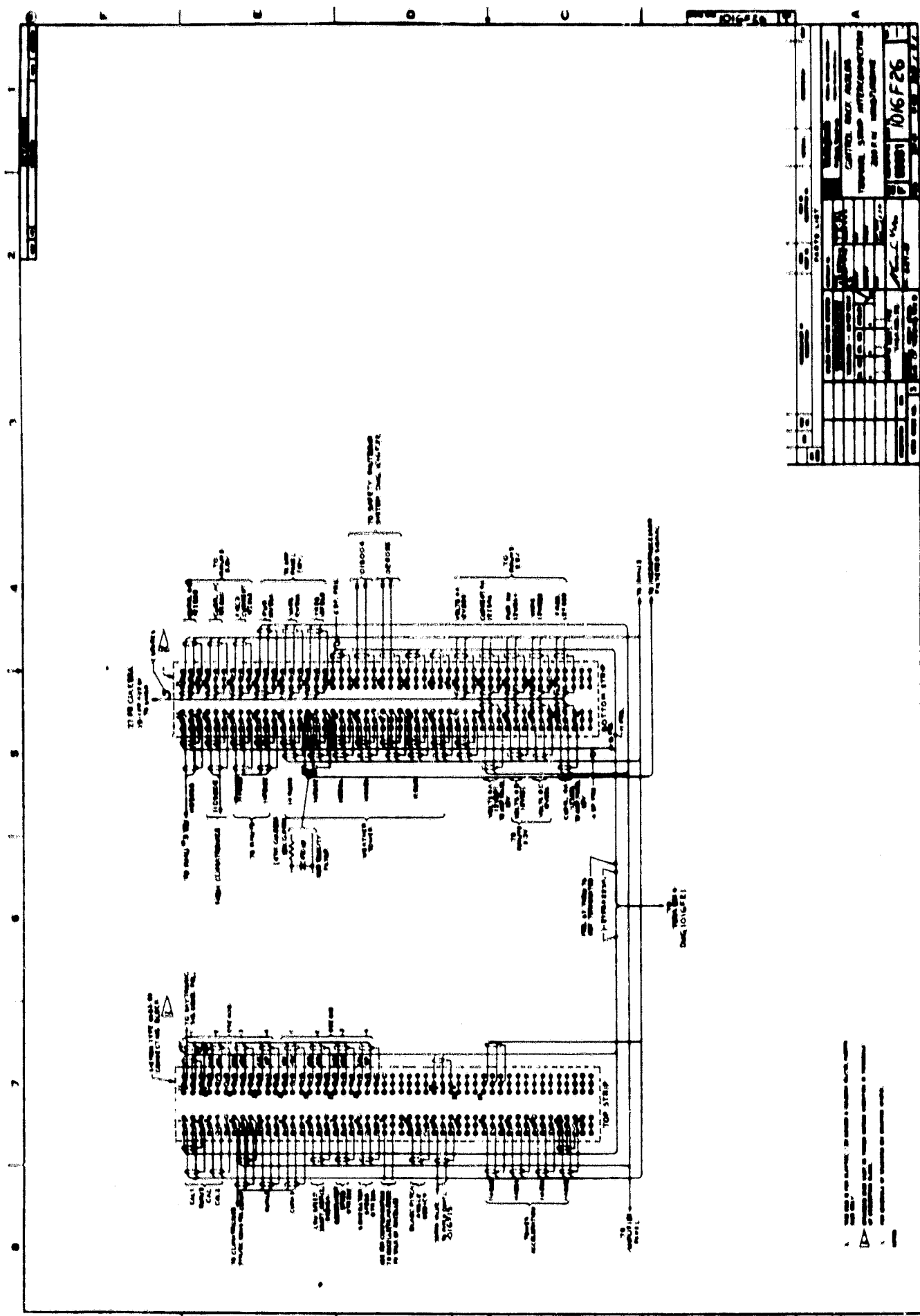


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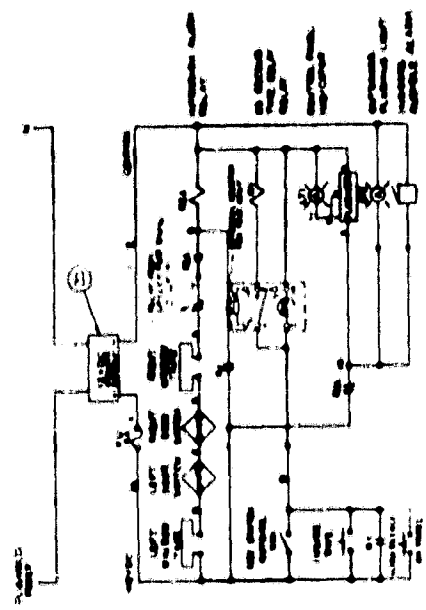


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93	RELAY	93	RELAY	93	RELAY
94	RELAY	94	RELAY	94	RELAY
95	RELAY	95	RELAY	95	RELAY
96	RELAY	96	RELAY	96	RELAY
97	RELAY	97	RELAY	97	RELAY
98	RELAY	98	RELAY	98	RELAY
99	RELAY	99	RELAY	99	RELAY
100	RELAY	100	RELAY	100	RELAY

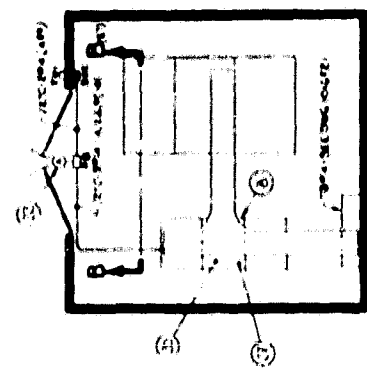


POSTS LIST		DATE		BY	
1	2	3	4	5	6
CAPTAIN: BERT ANDERSON MAJOR: SAMUEL W. HARRINGTON 106 F 26					

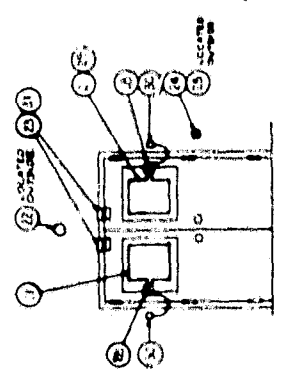
[illegible][illegible]



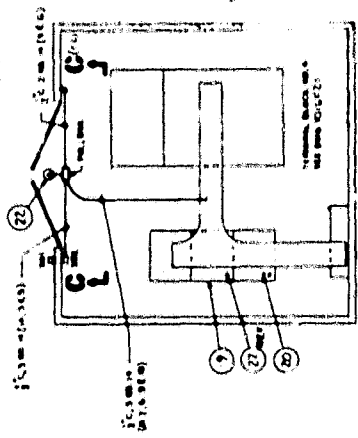
INTRUSION ALARM ELEMENTARY CIRCUIT



PLAN VIEW
CLAYTON

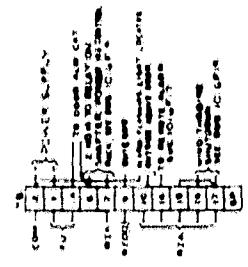


PLAN VIEW
CLAYTON



PLAN VIEW

SCALE 1" = 1'-0"



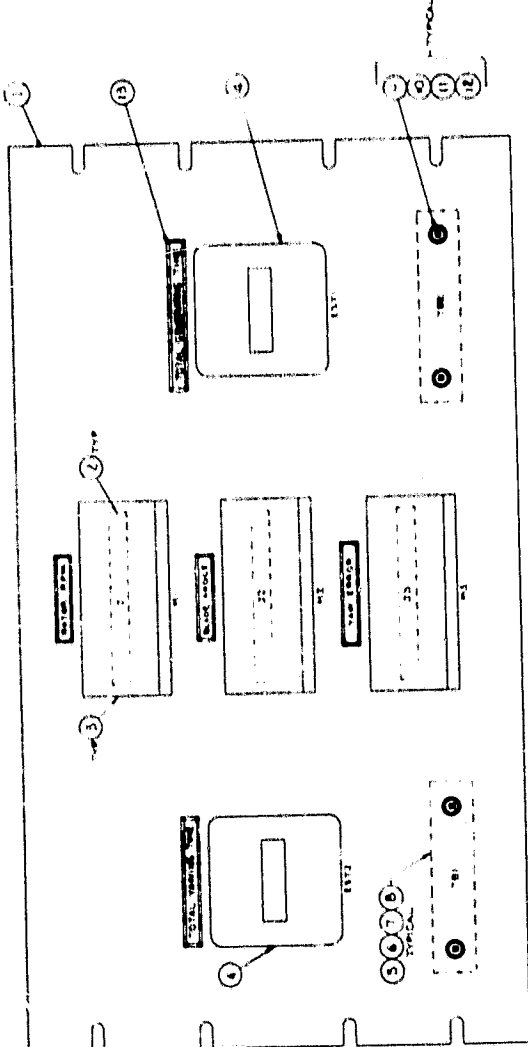
TERMINAL CONNECTIONS

GROUP NO.	PART NO.
1	10167200-1
2	10167200-2

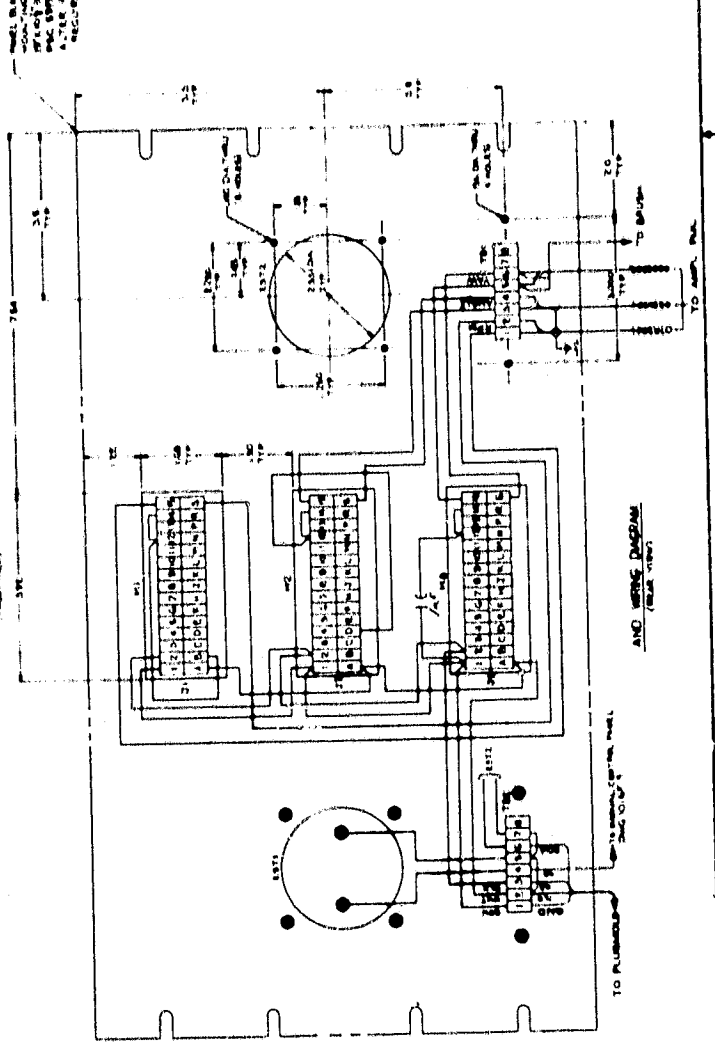


CROSS LAYOUT
SCALE -

CROSS LAYOUT
SCALE -



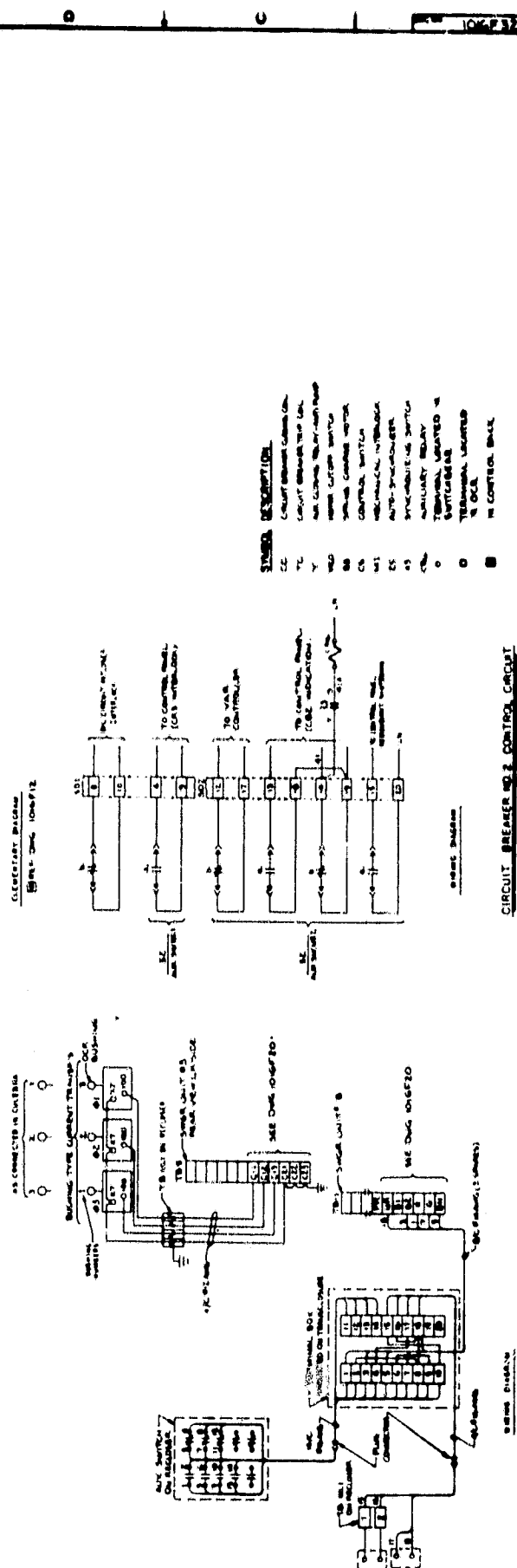
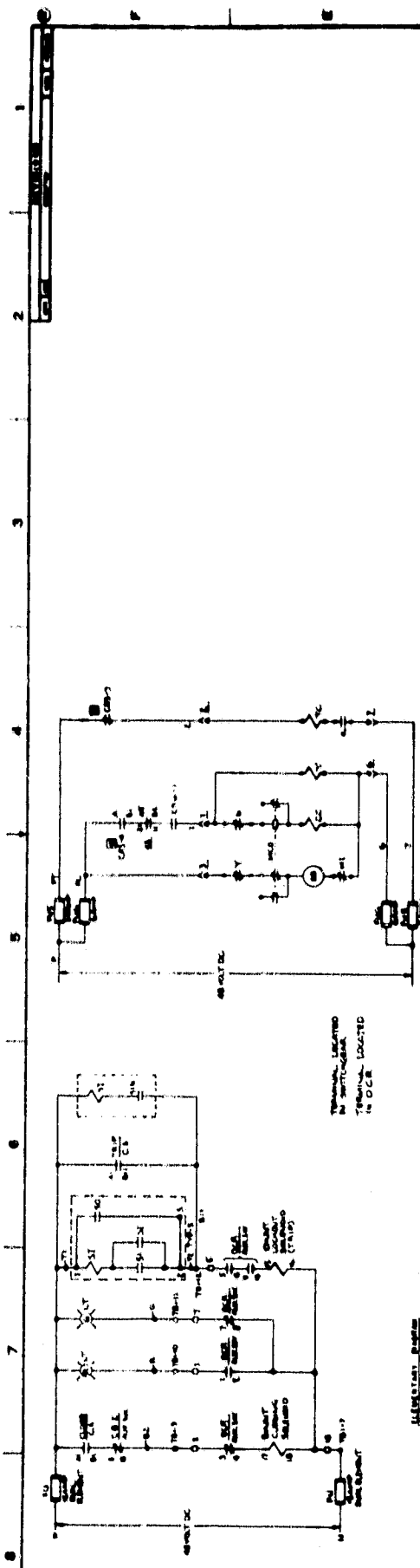
PANEL ASSEMBLY
FRONT VIEW

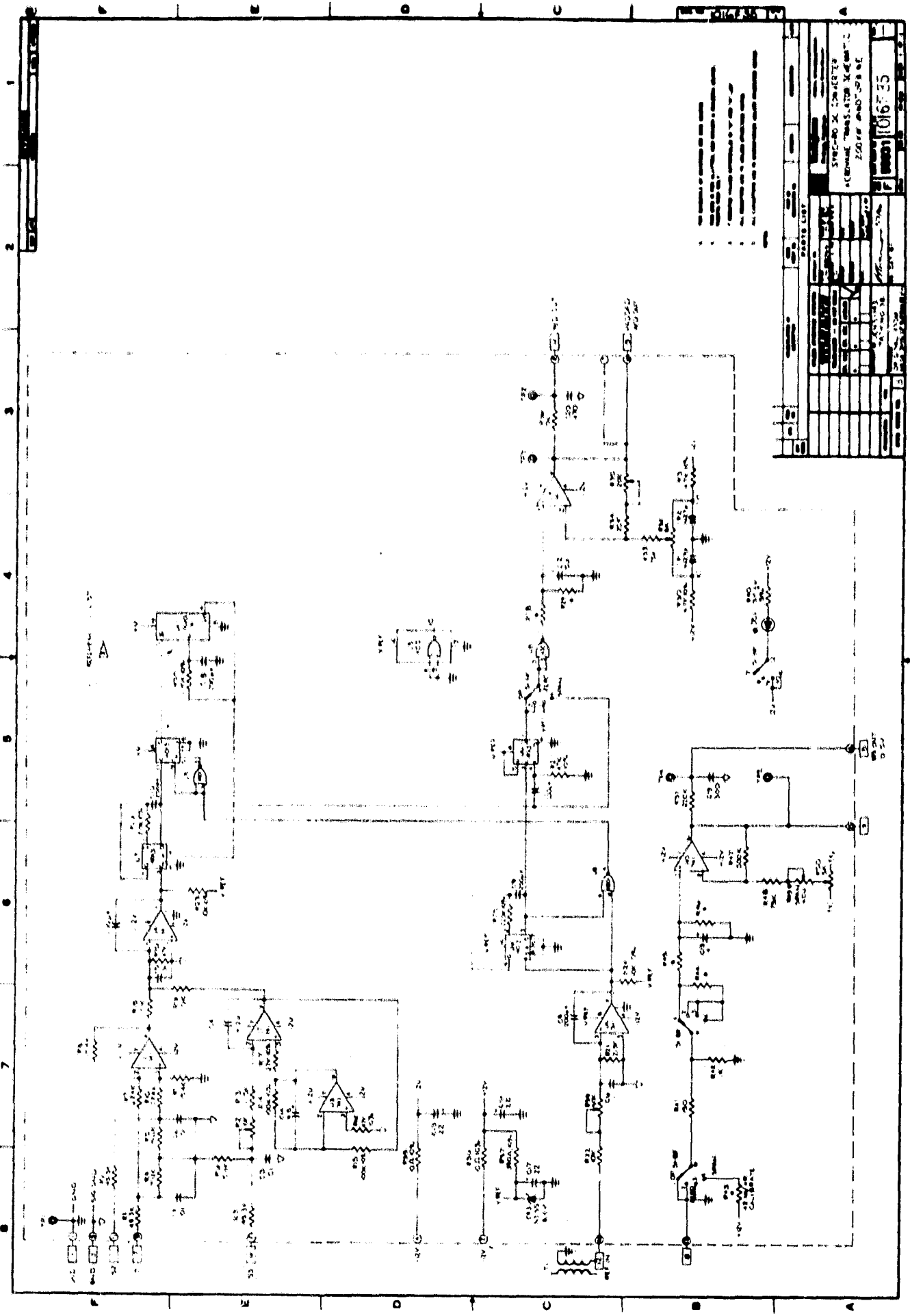


AND WIRING DIAGRAM
(REAR VIEW)

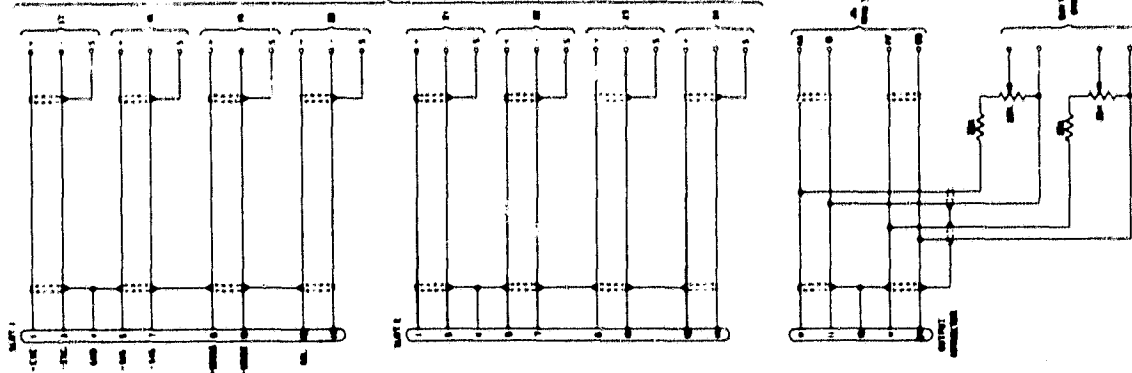
- 1. [Component Name]
- 2. [Component Name]
- 3. [Component Name]
- 4. [Component Name]
- 5. [Component Name]
- 6. [Component Name]
- 7. [Component Name]
- 8. [Component Name]
- 9. [Component Name]
- 10. [Component Name]

PARTS LIST		EXPLODED TIME PANEL	
QTY	PART NO.	QTY	PART NO.
1	10001	1	10001
1	10002	1	10002
1	10003	1	10003
1	10004	1	10004
1	10005	1	10005
1	10006	1	10006
1	10007	1	10007
1	10008	1	10008
1	10009	1	10009
1	10010	1	10010
1	10011	1	10011
1	10012	1	10012
1	10013	1	10013
1	10014	1	10014
1	10015	1	10015
1	10016	1	10016
1	10017	1	10017
1	10018	1	10018
1	10019	1	10019
1	10020	1	10020
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1	10036	1	10036
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1	10039	1	10039
1	10040	1	10040
1	10041	1	10041
1	10042	1	10042
1	10043	1	10043
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1	10095	1	10095
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1	10098	1	10098
1	10099	1	10099
1	10100	1	10100

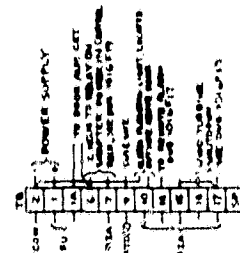
[illegible]



PARTS LIST	
1	6X4
2	6X4
3	6X4
4	6X4
5	6X4
6	6X4
7	6X4
8	6X4
9	6X4
10	6X4
11	6X4
12	6X4
13	6X4
14	6X4
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18	6X4
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33	6X4
34	6X4
35	6X4
36	6X4
37	6X4
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96	6X4
97	6X4
98	6X4
99	6X4
100	6X4

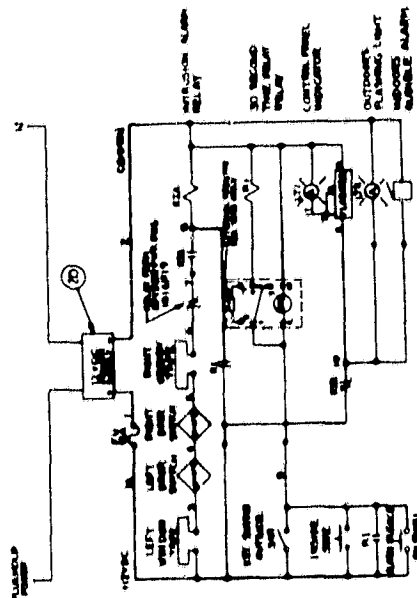


1. - POWER SUPPLY
2. - 100 OHM 1/4W
3. - 100 OHM 1/4W
4. - 100 OHM 1/4W
5. - 100 OHM 1/4W
6. - 100 OHM 1/4W
7. - 100 OHM 1/4W
8. - 100 OHM 1/4W
9. - 100 OHM 1/4W
10. - 100 OHM 1/4W
11. - 100 OHM 1/4W
12. - 100 OHM 1/4W



TERMINAL CONNECTIONS

INTRUSION ALARM ELEMENTARY DIAGRAM



NO.	DESCRIPTION	QTY.	UNIT	REMARKS
1	POWER SUPPLY	1	PCB	
2	100 OHM 1/4W	12	PCB	
3	100 OHM 1/4W	12	PCB	
4	100 OHM 1/4W	12	PCB	
5	100 OHM 1/4W	12	PCB	
6	100 OHM 1/4W	12	PCB	
7	100 OHM 1/4W	12	PCB	
8	100 OHM 1/4W	12	PCB	
9	100 OHM 1/4W	12	PCB	
10	100 OHM 1/4W	12	PCB	
11	100 OHM 1/4W	12	PCB	
12	100 OHM 1/4W	12	PCB	

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